

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

NATIONAL BROADBAND PLAN WORKSHOP
DIVERSITY AND CIVIL RIGHTS ISSUES IN BROADBAND
DEPLOYMENT AND ADOPTION

Washington, D.C.

Friday, October 2, 2009

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2 Opening Remarks:
3 COMMISSIONER ROBERT MCDOWELL
4 Introduction:
5 MARK LLOYD, Moderator
6 Panelist Presentations:
7 What are the gaps in broadband access and
8 adoption? And what is the best way to measure
those gaps?
9 MARK PRUNER
10 President and co-founder of the Native American
Broadband Association
11 CATHERINE SANDOVAL
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16 JIM TOBIAS
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19 What does the law compel or limit regarding
20 government action to close gaps in broadband
access and adoption?
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16 What works now to close the gap in broadband
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1 P R O C E E D I N G S

2 MR. LLOYD: Good morning.

3 MS. LEWIS: Good morning.

4 MR. LLOYD: We are running just a tad
5 late, but we will catch up, and we've got a good,
6 long day ahead of us.

7 My name is Mark Lloyd. At the moment,
8 I'm not going to say much more than that, but I
9 will introduce Commissioner Robert McDowell, who I
10 first met when I was doing work on DTV, and here,
11 at the FCC, we've sort of split between democratic
12 and republican commissioners, but one of the
13 things that I first noticed about Commissioner
14 McDowell was that in DTV work, he actually called
15 up the FCC to find out how they were treating
16 consumers, and I was extraordinarily impressed
17 with that, and I've known his assistant, Rosemary
18 Harold, for a number of years, and we both go back
19 to some extent to Wiley Ryan Fielding.

20 So, it is really a pleasure to introduce
21 Commissioner Robert McDowell to this panel. Thank
22 you, sir, for joining us.

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1 MR. McDOWELL: Well, thank you, and
2 thank you very much, Mark, for all your hard work
3 on this issue in particular and putting together
4 today's workshop. It's extremely important.

5 So, does everyone know what today is the
6 50th anniversary of? The airing of the Twilight
7 Zone.

8 (Laughter.)

9 MR. McDOWELL: Now, driving, I was
10 trying to figure out a segue to this panel on
11 that, and I'm still working on it, but the
12 relevance, but I thought that was sort of
13 interesting. Hopefully, we can keep diversity and
14 civil rights issues in broadband out of the
15 Twilight Zone and well-grounded in reality. But I
16 thought that was a little interesting trivia
17 piece.

18 So, on Tuesday, SSC staffers working on
19 the plan, of course, talked about many of the
20 promises and challenges facing folks, such as us
21 at the FCC policymakers all around, including
22 those raised by the uneven levels of broadband

1 access and adoption by different demographic
2 groups.

3 Yesterday, I held a panel on capital
4 formation, and it only lasted an hour-and-a-half,
5 where part of that is how can we get investment by
6 entrepreneurs in the broadband space in all facets
7 of the broadband space? We will be having an
8 additional hearing or workshop on that. I don't
9 know if we have a date for that yet, so, I'm not
10 sure if I'm ready to make that announcement, but
11 coming up soon. So, please stay tuned.

12 So, having access to capital, first of
13 all, you have to have the capital to have access
14 to. That was sort of the yesterday's hearing, and
15 then what is the access to capital? What are the
16 challenges there for that? So, please stay tuned
17 because a lot of these issues aren't really about
18 black, white, or brown. They could be resolved by
19 the color green. And, so, I wore my green tie
20 today to symbolize that. But whether you are
21 building a broadband network or whether you are
22 writing applications or whether you're a consumer

1 that would like to benefit from those
2 technologies, then you need to buy a device.

3 Really, a lot of this boils down to
4 money and resources and how are we going to be
5 able to get these powerful technologies that can
6 really improve the human condition so dramatically
7 and so quickly? How do we get those resources
8 into the hands of as many people as possible?

9 So, anyway, that is a big issue for us.
10 We do have some good news. Of course, out in the
11 marketplace, the use of wireless devices is high
12 among demographic segments such as young, urban
13 residents, but many in that group are not adopting
14 more powerful laptop or desktop connections to the
15 Net. And we need to find out why that is. And,
16 obviously, cost is one of those factors. But does
17 this group question whether more robust Internet
18 access is worthwhile to them to begin with? And
19 that has to do with getting the word out and
20 education. So, information and money, I think, go
21 hand-in-hand in this whole equation.

22 But I want to thank everyone in advance.

1 I don't want to blather on for too long because we
2 want to hear from you all. I've got a lot going
3 on today, as you can imagine, so, I'm not going to
4 be able to stay for as long as I would like, but
5 Rosemary Harold, my esteemed legal adviser for all
6 things media and then some, it's a long title,
7 but, anyway, will be here, as well, covering all
8 this for me.

9 So, one of the things, when we submit a
10 broadband plan to Congress, we're going to be
11 talking about a lot of things that might be well
12 outside of our jurisdiction. It's directly what
13 the FCC can affect, but that's what Congress
14 wanted. We're an expert agency on these matters.
15 I think the chairman and his team have done a
16 terrific job of casting the net as widely as
17 possible and harvesting as much data as possible.
18 There's relevant data and irrelevant data in
19 there. There's good data and less-than-good data,
20 so, obviously, we want relevant, good data, so,
21 hopefully, today, we can start to drill down and
22 focus on that.

1 But, also, when the FCC acts on
2 something as a result of this broadband plan, I
3 hope it will be sustainable. Pretty much almost
4 everything we do, any order we issue we gets
5 appealed by somebody, and that's the way our
6 system works, and that's a healthy thing.

7 But, speaking of the Twilight Zone, we
8 want to stay out of the Twilight Zone of
9 overturned orders, if possible. So, I know
10 they'll be some discussion of what's within our
11 legal realm to do and what can do that will be
12 sustainable because I think it's
13 counterproductive. We want to dream big and push
14 the envelope as much as we can, but we can
15 actually end up taking steps backward and turning
16 back the clock by sometimes years or decades if
17 what we do ends up getting overturned and setting
18 a bad precedent. And then we're sort of painted
19 into a corner.

20 So, let's stay out of that Twilight
21 Zone. I couldn't really find a better way to use
22 that little factoid for the day.

1 But, anyway, thank you, all, so much. I
2 will conclude at this point and really, we will
3 greatly value everything you have to say, and this
4 will be an ongoing discussion. This is certainly
5 not the end of these very, very important issues.
6 And thank you, Mark again for everything you're
7 doing.

8 MR. LLOYD: Thank you, Commissioner.
9 Thank you. So, the title of this program is
10 "Diversity and Civil Right Issues in Broadband
11 Deployment and Adoption." And if I could say just
12 a couple of words, not much, but just a couple of
13 words about both diversity and civil rights, and
14 then see if we can get on to our panel.

15 When I or we at the FCC say "diversity,"
16 we are not talking about political ideology, we're
17 not talking about race or ethnicity, we're talking
18 about diversity. We're talking about all
19 Americans and being as inclusive as possible. So,
20 this is not an issue that we think is limited to
21 one particular group, it's not a code word for
22 black or Latino. Diversity means diversity.

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1 And when we say "civil rights," all
2 Americans have civil rights. Commissioner
3 McDowell has civil rights. I have civil rights.
4 Lou Dobbs has civil rights. All Americans have
5 civil rights. Civil rights lawyers understand
6 this. Again, this is not a code word for some
7 particular group or disability or political
8 affiliation or anything else.

9 What do these issues, diversity, and
10 civil rights really have to do with the FCC's work
11 in creating a broadband plan, and my work here,
12 I'm an associate general counsel at chief
13 diversity officer. I am a counsel to the
14 Commission. I do not set policy, but I work to
15 advise policymakers on a range of issues with some
16 expertise and concern about diversity and civil
17 rights. And, like many Americans, I rush to find
18 out if there was a way I could help a new
19 administration, and I was allowed to do that not
20 by President Barack Obama, who probably has no
21 idea I'm even here, but by the chairman of the
22 FCC, Julius Janikowski.

1 So, it really is an honor to be here to
2 be able to work on these set of issues, and we
3 will, as you see, have an extraordinarily diverse
4 panel. We will discuss a range of issues. We've
5 brought a number of really topnotch scholars.
6 Some of them happen to be friends who are working
7 on these issues. And we were also privileged to
8 be join by a number of folks from the Federal
9 Government.

10 Now, the role that we, in the
11 government, play here really is a role as
12 questioners to try to listen and to learn from the
13 public. We really are here, and this is a session
14 to listen.

15 Before I go too far down the road, I
16 wanted to let you know that the person who's in
17 charge of this room is a guy named Calvin Osborne.

18 Calvin, are you here somewhere? He is
19 right behind you. So, if you need something, some
20 direction, he's the one who's directing me. He is
21 our in-room coordinator.

22 Christian Fiascunari is our online

1 coordinator. John Finney is working the timer for
2 us and keeping us on track. We're a little bit
3 late, but John's going to help us get back on
4 time. And Corrin Barksdale is working the AV
5 behind the desk there, sitting where usually the
6 commissioner sits. So, she's very comfortable
7 there, as you can see.

8 So, we've got really a very good team,
9 and all these folks are from the Office of
10 Communications and Business Opportunities, and Tom
11 Reed and his office has really been very helpful
12 in working with me, and really, that's the extent
13 of my work here. I work with other folks. I
14 don't have a gigantic office, and as I think David
15 Honig said to one paper, I don't even have a
16 corner office.

17 So, all that aside, we have an
18 extraordinarily important day ahead of us. I hope
19 that you can stay for most of it, and we will
20 start really with the discussion of what used to
21 be called information haves and have-nots. It was
22 then called the digital divide, and we're now sort

1 of talking about it in terms of gaps of access and
2 adoption to advance information technology.

3 My friend, Maureen Lewis, who is with
4 NTIA, is going to be here to help me out.

5 John Horrigan, who was with Pew, and has
6 left that wonderful organization to somehow join
7 the madness here at the Federal Communications
8 Commission will also be here. And I've asked John
9 if he could sort of start us off with a set of
10 slides and a presentation of sort of what do we
11 know now regarding gaps in access and adoption for
12 the different communities in the United States?
13 And, so, with that, John Horrigan? Thank you.

14 MR. HERRIGAN: Thanks very much, Mark.
15 It's a pleasure to be here. And I appreciate you
16 giving me the chance to be on the panel today.

17 What I'd like to do is just go through a
18 couple of slides to provide sort of a data
19 overview of where we stand with respect to
20 broadband adoption. So, let's just get right to
21 it.

22 You can see that, according to a number

1 of different sources, including the Pew Internet
2 and American Life Project, broadband adoption in
3 the United States stands at close to two-thirds of
4 Americans having a broadband Internet connection
5 at home.

6 So, you can see across a couple
7 different measurement techniques, a couple
8 different sources, broad consensus said close to
9 two-thirds of Americans have broadband at home.
10 Looking at trend data over time, you can see that
11 we passed for broadband adoption among adult
12 Americans 50 percent sometime in 2007, and,
13 actually, when you look at that rate of going from
14 about 0 to 50 percent adoption is a fast adoption
15 rate when you compare broadband with other kinds
16 of information technologies. It's faster than it
17 took the personal computer and cell phones to hit
18 50 percent, for instance.

19 So, certainly, people at a good rate
20 have been adopting broadband over the past couple
21 years. Of course, what remains to be seen is are
22 we at an inflection point at that curve as we hit

1 that 63 percent point, and we can talk about that
2 a little bit later, perhaps.

3 There are, as Mark said, however,
4 significant gaps when you look across different
5 demographic and socioeconomic categories. If
6 you're among the least-educated Americans and
7 among the lowest income Americans, you're about
8 half as likely to have broadband at home than the
9 national average. And really, education and
10 income are the two strongest predictors of whether
11 you have broadband at home.

12 Geography comes into play, as well, for
13 Americans, many because of lack of access of
14 infrastructure, have lower rates of broadband
15 adoption, and you can see with respect to age,
16 even though senior citizens are adopting broadband
17 at a very fast rate, they remain about half as
18 likely to have broadband at home.

19 Now, focusing on the bars that pertain
20 to race, you can see that African-Americans and
21 Hispanics significantly lag the national average.
22 I should say for the 40 percent number for

1 Hispanics, that does come from a survey in which
2 there was a Spanish language option, so, that is
3 from a fairly good sample of Hispanic Americans.
4 Forty percent of Hispanics have broadband at home.
5 Forty-six percent of African-Americans. And,
6 according to the Pew data, that figure for
7 African-American adoption has remained about the
8 same in the past two years. It's grown only 6
9 percentage points since 2007.

10 At the same time, and Commissioner

11 McDowell alluded to this, African-Americans are
12 really the most active group in using the mobile
13 Internet. So, that represents an interesting
14 crosscurrent. African-Americans plateauing to
15 some extent on wireline broadband access, yet,
16 rapidly embracing the mobile Internet.

17 The why behind that is really an open
18 question, and it's something that we with a
19 broadband plan here at the Commission plan to
20 explore in the coming months as we develop the
21 plan.

22 The figure there for Hispanics I should

1 say came from a survey in which there was not a
2 Spanish language option, so, that context is
3 important interpreting that number for Hispanics.

4 One thing we're very interested in at
5 the broadband plan is what are the reasons behind
6 non-adoption, and this just comes from some
7 research from Pew that charted out why people say
8 they don't have either Internet access or
9 broadband access, and most people or about half of
10 non-adopters site something pertaining to
11 relevance.

12 Let me just move on since we have
13 another slide or two before I conclude.

14 And this final slide highlights what
15 we're calling the growing cost of digital
16 exclusion, and what I mean by that, just to call
17 out the employment example, is that we did talk a
18 lot about the digital divide 10 years ago or so,
19 and 10 years ago, if you looked for a job, if were
20 embarking on a job search, you looked at ads and
21 print publications, you probably activated your
22 social networks. Some of the people in your

1 social network had e-mail, less than half, but if
2 you were looking for a job and you didn't have
3 Internet access, there were plenty of alternatives
4 10 years ago.

5 Today, the story is very different.
6 Three-quarters of Fortune 500 companies as of 2005
7 said that they basically required online access in
8 order to apply for a job.

9 So, these days, if you don't have
10 broadband access, you're severely disadvantaged in
11 a way that wasn't the case years ago. I
12 (inaudible) to you the rest of that slide to look
13 at other examples where not having broadband
14 access is extremely costly and more costly
15 arguably than it was 10 years ago. So, the cost
16 of digital exclusion is an important point we're
17 going to be digging into at the broadband plan,
18 and I think it is worthwhile for all of us to
19 think about today as we talk about these issues.

20 Thank you, Mark.

21 MR. LLOYD: Thank you, John. And I know
22 you're going to stay here for a little while, but

1 just so folks in the audience understand that you
2 have to leave a little bit early to go to Capitol
3 Hill. So, thank you for being able to make this
4 time for us at least.

5 MS. LEWIS: Sure.

6 MR. LLOYD: One of the challenges that
7 we're facing is: How do you actually understand
8 who is online, who is not online, why, why not?
9 And, so, we're going to dig a little bit into
10 these numbers, and I've asked my friend, Jorge
11 Schemment, who is dean of the School of
12 Communications Information and professor at the
13 Bloustein School of Public Policy and the
14 Department of Latino-Hispanic-Caribbean Studies at
15 Rutgers University to join us to give us a little
16 sense of the swift change in demographics and how
17 folks really construct their median communications
18 environment?

19 So, with that, Professor Schemment,
20 please.

21 MR. SCHEMENT: Thank you, Mark. Thank
22 you, everybody.

1 All right. How's that? I feel like
2 Edward R. Murrow.

3 Thank you, thank you, all. What I want
4 to talk about today is changes that we're all
5 aware are taking place, but I'm going to suggest
6 that there are some nuances to them that either we
7 haven't expected or that are going to produce some
8 consequences we're not currently thinking about,
9 at least not in the policy arena.

10 So, I want to start out with a caution
11 and a challenge.

12 My caution is that we have a tendency to
13 talk about groups and very big swipes, large
14 groups. I'm going to suggest that there's a
15 tremendous amount of variation out there in terms
16 of how people construct their information
17 environments, either in their homes or their
18 communities, and that that is going to have a
19 bigger impact on the success of our policies in
20 the 21st Century, and my challenge is that policy
21 moves by metaphors. It's the metaphors we develop
22 that cause us to understand policies or proposed

1 policies and that it's time for some new
2 metaphors, and I'm going to indicate, I hope, why.

3 First, two very long trends that have
4 been taking place in the United States since its
5 beginning our now reaching their end. The first
6 is the decline of the number of people per
7 household. That's beginning to flatten out.

8 And the second is in the number of
9 single person households. That's going to
10 continue to climb for awhile, but, as it's going
11 to reach a saturation point, as well. These are
12 dynamic changes that completely change the nature
13 of households. In the 20th Century, they are not
14 going to be the driving changes in the 21st
15 Century.

16 I also want to suggest that we have to
17 start thinking of the household differently.
18 Fifty-five percent of households do not include a
19 married couple. Twenty-seven percent of
20 households have only one person, and that percent
21 continues to grow. Two-thirds of households do
22 not have children, which explains, in part, the

1 difficulty in passing bond issues for things
2 having to do with schools in many parts of the
3 United States.

4 Seven percent of households are
5 traditional. That is the working father,
6 non-working mother with children. Any of you who
7 grew up in that kind of household, it is only 7
8 percent of households today, and that percent
9 continues to decline. And, of that percent, while
10 75 percent of the population in Anglo or white,
11 only 60 percent of traditional households are. In
12 other words, the traditional household is evolving
13 out of being a predominantly white, middle-class
14 profile into something else.

15 Here is the split as we see it.
16 Geography is going to count. This map here shows
17 you that a 300-year pattern of historical
18 circumstances has placed Hispanics, for the most
19 part, Latinos, for the most part, in the west and
20 in Southern Florida. African-Americans across the
21 southeast. That's beginning to change.

22 This map here shows you where the rates

1 of growth are for the Latino population in the
2 coming decades, and they will be primarily in the
3 southeast and in the Midwest. In other words, the
4 southeast is going to become more multi-ethnic,
5 and that's going to create some very interesting
6 circumstances politically, economically, and
7 culturally for people living in the southwest, and
8 the same is going to happen in the Midwest.

9 Nevertheless, the most ethnically mixed
10 part of the United States is probably going to be
11 the southern tier. The northern tier is going to
12 have less ethnic mixing than the southern tier.
13 The southern tier is going to become
14 linguistically mixed, ethnically mixed, culturally
15 mixed. It's going to be a very different place
16 from the place that, perhaps, we grew up in.

17 Immigration is going to play a big role.
18 The key thing here, of course, is that the
19 majority, that is over 50 percent of all the
20 immigrants who come to the United States, come
21 from Mexico, but the second largest group are
22 Filipinos. I haven't heard anybody in Washington

1 talk about Filipinos in a long time. Yet, they're
2 the second largest group, and there are more
3 Germans coming to the United States than Chinese
4 coming to the United States, even though we talk
5 about a lot about Chinese immigration.

6 In my home state, the most common
7 surname at graduation was the name Patel, and the
8 second most common surname at graduation was the
9 name Rodriguez. So, that gives you a sense of age
10 tiers, also, as to who is moving up.

11 Regional variation by ethnicity is also
12 going to be significant. That is, the majority of
13 Latinos in the United States may be
14 Mexican-Americans, but in a state like
15 Pennsylvania, the majority are of Puerto Rican
16 descent. That means different language
17 characteristics, different dialogues, different
18 food interest, and also different cultural and
19 political patterns.

20 And to pursue the Pennsylvania example
21 just a little bit further, the only sources of
22 increased population for Pennsylvania in the last

1 decade and in the coming decade are from either
2 immigration or from the birthrates of Latinos.
3 Everybody else is of zero population growth or
4 below.

5 So, that translates into cities that are
6 going to look not the same, convergence is not
7 going to be the characteristic of American cities,
8 but divergence is going to be the characteristics.

9 Here are projected populations for Los
10 Angeles and for Philadelphia. Philadelphia will
11 have a significant Anglo population well into the
12 21st Century. Los Angeles' majority population is
13 already Latino and will continue to be so. In
14 fact, the rates of change in these charts are less
15 than what we actually have observed.

16 All right, let's talk a little bit about
17 technology use.

18 This is an overly-complicated chart.
19 There's a graduate student who's going to get in
20 trouble.

21 (Laughter)

22 MR. SCHEMENT: That breaks down

1 telephone penetration, and we're talking about
2 telephones, right? Telephone penetration by
3 income and by ethnicity.

4 Median income is everybody below median
5 income, that is the 50 percent of households below
6 median income actually make up two-thirds of that
7 chart, and what we see in those tow-thirds is that
8 even within the same income level, we still see
9 ethnic disparities, we still see ethnic
10 differences in access. So, it's not just about
11 money; there's something else going on that
12 prevents people in the same income group from
13 having the same levels of access to information
14 technology.

15 And telephone is important. I'm going
16 to come back to that because I'm suggesting that
17 we're not going to see levels of broadband access
18 higher than levels of telephone access. So, the
19 phrase when everybody's on the Internet is
20 actually a hyperbole. It does not seem likely
21 that that zone of people who don't have access to
22 telephone are going to somehow get access to

1 Internet or broadband without having access to
2 telephones. So, telephone is likely to be a
3 significant barrier to increasing Internet access.

4 The following data comes courtesy of my
5 friend, John Horrigan. It's very tiny. But what
6 it is basically demonstrating is that Internet use
7 varies not only by income, but also varies by
8 ethnicity in the same way the telephone does.
9 Here, as well, this is looking at what percentage
10 of the population uses e-mail or accesses and then
11 uses the Internet. Those red entries are
12 differences in ethnicity. It turns out that just
13 like with telephone, there are ethnicity
14 differences even when we control for income.

15 The next one shows where the real
16 catalyst for change is taking place, and that's in
17 wireless telephony. Minorities are leading the
18 way in terms of adopting wireless technologies.
19 In fact, I would say to my colleagues in the phone
20 companies they are your early adopters, therefore,
21 their subsidizing everybody else. They're helping
22 to create the network for everybody else who's

1 using it. So, maybe they deserve a break of some
2 kind. It's just a thought.

3 And then here we have that percentage of
4 the population that reports using a high-speed
5 connection or broadband, it's much, much lower.
6 We're talking in the middle range in the 50s, but,
7 even there, we see some changes.

8 So, a point I've been trying to make
9 here is that technology access is not something
10 that is solely dependent on income. It is also
11 dependent on aspects of ethnicity, but so is
12 content.

13 So, what we see, and this is an old
14 chart, and somebody's working on updating it for
15 me. They didn't get it done in time. This is an
16 old chart, but, nevertheless, it makes a point I
17 want to make about using the Internet, as well as
18 watching TV. The TV set can be turned on,
19 Internet access can be achieved, but what people
20 are doing on it is quite different. There's a
21 tremendous amount of cultural diversity that takes
22 place.

1 And this is what that cultural diversity
2 results in. As you probably know, Americans buy
3 more salsa than ketchup. They've been doing that
4 for 25 years. They buy more corn chips and potato
5 chips also for 25 years, and these foods that we
6 see here are no longer identified as foreign foods
7 by most Americans. Piñatas show up at in Anglos
8 kids' birthday parties, and Anglos kids have
9 learned to do what Mexican kids knew how to do 500
10 years ago, play with their tortillas.

11 So, the cultural is changing, as well.
12 And then, finally, I just want to make a couple of
13 quick points.

14 My bottom line point is this: We have
15 increasingly become aware and spent time thinking
16 about the diversity of who uses the technologies
17 that we care about, such as telephone and
18 broadband, but the policies we create act as if
19 they're no differences. The policies we create
20 don't take that into account at all. So, there is
21 a big disparity moving into a century that is
22 going to be more diverse than it's going to be

1 convergent for the population in the United
2 States.

3 So, my final challenge is we need to
4 think of some different metaphors and different
5 ways of constructing policies that not only take
6 this into account, but make life better for these
7 folks.

8 Thank you very much.

9 MR. LLOYD: Great. Thank you, Jorge.
10 An awful lot to think about.

11 I started out talking about the fact the
12 diversity is not necessarily about color, and I've
13 asked Jim Tobias if he could join us.

14 Jim has been working with the disabled
15 community for a number of years and has been
16 trying to find ways to promote inclusive
17 technologies, and he has, I think, graciously come
18 from not Washington, D.C., to join us and provide
19 us with some information about how do we really
20 measure the population that's increasingly getting
21 older, and, to some extent, like me, maybe needing
22 glasses and having some other challenges, and a

1 wide variety of other things that we call
2 disabilities.

3 So, Jim Tobias, please.

4 MR. TOBIAS: Thank you, Mark, and thanks
5 to the whole commission for this opportunity to
6 speak here this morning. I think, to some, it may
7 be a new demographic way of slicing the American
8 public. If you think about disability, it may not
9 be a condition that we all aspire to, but it's
10 probably a condition that we all will enter if
11 we're lucky enough to live long enough, we all see
12 and hear at decreasing levels of effectiveness as
13 we age. So, I want us to consider disability,
14 and, therefore, accessibility as something that
15 eventually will affect us all. So, it's not
16 necessarily a separate category.

17 I just want to begin by looking at the
18 current levels of adoption of both Internet and
19 broadband. The top level numbers there show 65
20 percent adoption of the Internet in general across
21 the public, and the bars below indicate for each
22 disability category how much lower those numbers

1 are both for Internet adoption and for broadband
2 adoption. So, you see with any disability
3 whatsoever, the number drops rapidly already, and
4 then looking at hearing impairment, visual
5 impairment, cognitive impairment, and mobility
6 impairment, those numbers are also very low.
7 They're approximately half of the non-disabled
8 population.

9 Slicing it the other way, looking at
10 people who don't use the Internet now, 26 percent
11 of them identify as having some disability. So,
12 we have to wonder what is causing this. And we
13 have some pretty good data, I think as the
14 Commissioner mentioned before, and then we have
15 some not so pretty good data, and I'm going to
16 argue that we should improve our data collection
17 and look both wider and deeper.

18 So, let's begin with the standard
19 demographic factors that we already know predict
20 low levels of adoption or non-adoption of Internet
21 and broadband.

22 People with disabilities, if you see in

1 the chart here, compared to people without
2 disabilities have much lower rates of employment,
3 they have much lower household income. If you
4 look at just the numbers of 100 percent poverty
5 level or below, the people with disabilities are
6 twice as likely to be in households with low
7 income. And people with disabilities are, as I
8 said, older. They're a small percentage of people
9 age 21 to 64, but a much larger, more than
10 one-third of the population 65 and older, and,
11 obviously, as you go to 75 and 85, those numbers
12 climb well above the 50 percent mark.

13 Seventy-five percent, I think, is the number for
14 people 85 years and older have some disability.

15 Educational attainment is also less than
16 half of the non-disabled population with respect
17 to having a college degree. So, these are the
18 kind of standard factors that we see as predicting
19 people who would not be certainly early adopters
20 and might be non-adopters of broadband and
21 Internet.

22 In addition, accessibility or disability

1 imposes its own burden, some of which are actual
2 and some of which are perceived.

3 If we look statistically, people who
4 find it difficult or impossible to use the
5 Internet, 28 percent of non-users say that their
6 disability makes the Internet difficult or
7 impossible to use. Even people who use the
8 Internet recognize that it impairs their ability
9 to use it. Twenty percent of people who use the
10 Internet say that their disability makes it hard
11 to use.

12 So, this is a challenge not only to
13 designers. If we could leave this burden at the
14 designers' fluorescent-lit laboratory room, you go
15 solve this usability and accessibility problem, I
16 think we would have solved it a long time ago, and
17 I'll talk a little bit more on this slide later
18 about what I hope will echo Professor Schement's
19 point about the narrative nature of non-adoption
20 and how do people explain why they don't get the
21 Internet and why they do get the Internet.

22 So, among the both real and perceived

1 issues that people with disabilities face, there
2 was a certain amount of technological pessimism,
3 and I think all of this can recall experiences
4 where we tried something and it didn't work right
5 the first time we tried an ATM or we tried to pump
6 gas, self-serve gas into our car, something went
7 wrong. The next time we try it, we're confronted
8 by that situation, and maybe we've done our
9 homework and caught up and figured out how to do
10 it, or maybe we're a little more wanting to avoid
11 those situations.

12 People with disabilities tend to

13 confront those situations more often than people
14 without disabilities, and, so, they develop what's
15 called technological pessimism. They just assume
16 that it's not going to be easy or it's not going
17 to work for them, and I think we're seeing this
18 definitely in the marketplace, and we're seeing it
19 in "clinical settings," as well, where people are
20 a little more reluctant to try new technologies.

21 And there was a narrative portion of
22 this. You don't see people with disabilities

1 featured prominently in some of those glorious,
2 glowing commercials about broadband and Internet
3 access, it's always the on-to-go executive
4 storming down the street or the kid Twittering to
5 his friends and what have you a skateboard.
6 People with disabilities are not featured there,
7 and, so, "it doesn't seem like this technology is
8 for me."

9 Then there's the very real issue of
10 accommodations. In other words, if I'm a person
11 with a disability, I may need a screen reader or a
12 screen enlarger or just a larger monitor in order
13 to see what's on the screen, and those
14 accommodations can be not only expensive, but
15 technologically complex. It may be hard for me to
16 figure out how to use them, that genius
17 14-year-old neighbor that everybody has who helps
18 fix the regular technology things that go wrong is
19 probably not an expert in assistive technology,
20 so, we need to figure out some way of increasing
21 not only the awareness, but the ability to pay for
22 those accommodations and to support those

1 accommodations.

2 So, I'm going to argue that what we
3 really want to focus on in our studies is not, at
4 least from the point of view of the communities of
5 people with disability is not bandwidth per se,
6 but related issues and some very unrelated issues.
7 I think we want to focus on, as Professor Schement
8 mentioned, the different TV shows people watch by
9 ethnic category. I think we'll have the same data
10 that we need to find out about the applications
11 that people with disabilities are using on the
12 Internet.

13 The issue of job applications makes my
14 Spidey sense go all tingly. If Fortune 500 firms
15 are relying on the Internet for people to apply,
16 and if that application Web page is inaccessible,
17 what does that do to limit people with
18 disabilities access to those jobs? And if they
19 have to go an alternate route and say if you can't
20 fill out this form, dial this number, and talk to
21 my secretary, they're pre-identifying themselves
22 in a way that other applicants wouldn't be. So,

1 that's a little bit problematic.

2 I think we need to focus on that
3 ecosystem approach. What are people on the
4 Internet to do rather than how many bits are they
5 using per minute over what portion of the day? I
6 think we want to look at retention of broadband
7 service. We have some very interesting studies of
8 people who once had the Internet and now no longer
9 do. Who's following those people to find out was
10 that an economic issue or was it a usability
11 issue, accessibility issue, couldn't find the
12 applications that they wanted, couldn't find the
13 accommodations that they needed?

14 There are some technological issues.
15 I'll just mention one. Video telephony for sign
16 language is a bandwidth-sensitive service, and it
17 is very crucial service for native sign language
18 speakers. So, we want to make sure that we're
19 measuring and even requiring enough bandwidth for
20 those households to be able to place not just one
21 video call for sign language, but possibly several
22 from the same household if there are many sign

1 language users within it.

2 And I'll close with just a couple of
3 other research issues. My time seems to have gone
4 faster than I anticipated, but I'll go through
5 that anyway.

6 As you saw in the first slide where we
7 split out the different disability categories, we
8 need to keep that in mind, as well. People with
9 disabilities are as diverse as any other
10 population, even with respect to their disability.
11 The technological needs, the market behavior of
12 people who are hard-of-hearing is different from
13 those who are deaf, is different from those who
14 are blind, who have low vision. So, we need to
15 slice that up a little bit more finely as I think
16 we do within the other diverse communities that
17 we're looking at.

18 Recruitment for the studies that we're
19 going to do is essential, as well, to not just
20 identify people through advocacy organizations or
21 through the easiest research subjects defined are
22 not in any way representative. They tend to

1 better connected socially, they tend to be earlier
2 adopters of technology, stronger social networks,
3 higher education attainment.

4 We need to reach out to the full width
5 of those disability communities. And we need to
6 look at, we have 30 years and more of experience
7 in making technology accessible to people, and we
8 need to look at those programs very carefully from
9 a policy perspective and identify what works and
10 what hasn't worked. How much can we count on
11 families to help the elders in those families
12 adopt and use technologies? How much can we rely
13 on senior centers or gerontologists or speech
14 therapists? How can we identify?

15 And there's an interesting study
16 recently about hair salons as health maintenance
17 monitors. That is if people were coming in the
18 hair salon in slippers when they usually came in
19 shoes, that was something like hey, maybe
20 something's going on with my client here, and I
21 want to make sure that she's okay and her
22 household is working the way it needs to work, and

1 I think we can do some of that very intelligent
2 light, regulatory touch in identifying some
3 successful policy alternatives.

4 Thank you very much.

5 MR. LLOYD: Thank you. So, as you can
6 see, this is an extraordinarily complex project.
7 For the FCC to report to Congress to provide a
8 broadband plan on providing access to all
9 Americans, if we take all Americans seriously, we
10 can see just with these first two presentations
11 that it is not as simple as most Americans or
12 quite as simple as we've been approaching it so
13 far. I really appreciate the presentations and
14 the suggestions.

15 One of the challenges Shana Bearhand at
16 the FCC talks a little bit about this is that our
17 relationship with original Americans is a little
18 distinct. They are often very distinct political
19 entities. And trying to get information about how
20 to provide service to Native Americans is
21 something of a challenge, and Shana introduced us
22 to Mark Pruner, who is here, who is the cofounder

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1 or founder, cofounder or founder of the Native
2 American Broadband Association, to give us some
3 sense of what do we know about broadband service
4 in Indian land and for Native Americans.

5 MR. PRUNER: Thank you, Mark. As you
6 said, I'm the cofounder and president of the
7 Native American Broadband Association. What we do
8 is bring information to tribes about the Recovery
9 Act Fund in the \$7.2 billion and also bring
10 information to you all and other government
11 officials about the issues confronting Natives.

12 To follow-up on Commissioner McDowell's
13 theme, we're the minority in the Twilight Zone.
14 If you looked at all of the slides that were up
15 there, there was only one slide that listed Native
16 Americans, and that slide had no information about
17 them. American Samoa, it's better tracked by the
18 FCC than tribal reservations are.

19 So, let's take a look at the universe of
20 Native American tribes. There are 563
21 federally-recognized tribes. That is a number
22 that's in and of itself tends to cause problems

1 when government officials try to deal with tribes.
2 They go how are we going to deal with 563
3 different entities? As a practical matter,
4 they're probably more 160. Of the 563 tribes, 200
5 are them are native villages in Alaska; another
6 150 to 200 are very small also native villages in
7 California and the west coast. In California,
8 they're called Rancherias.

9 The one thing you see when you're
10 dealing with tribes is that there are vast
11 differences, both culturally and from a
12 governmental viewpoint. The one thing that is
13 common with many tribes is that they're remote.
14 They're in the areas that the white settlers
15 didn't want to have. They were either pushed
16 there or they started there. So, because they're
17 remote, they're out of sight, and they're also out
18 of databases. And in a connected world, this
19 compounds a digital divide. If you're not in the
20 databases, you can't be part of the planning
21 process.

22 If you look at Native tribes, the one

1 thing XXX BEGIN TRACK MZ000219 XXX that they all
2 share is that they're all sovereign nations, and
3 if you want to get a tribal leader's attention,
4 say anything having to do with tribal sovereignty
5 or that might potentially impact the tribal
6 sovereignty.

7 Let's take a look at what data there is
8 available. The best data generally comes from the
9 Bureau of Indian Affairs, a division of the
10 Department of Interior. They have very good,
11 solid information about the location of
12 reservations and the population.

13 The one caveat there is if you're
14 dealing in Alaska, you really need have to have a
15 Alaska expert because the Alaska Native Claims
16 Settlement Act wiped out all tribes and all
17 reservations in Alaska, with the exception of one.
18 And up there, you have Native corporations and the
19 Native villages that I spoke of.

20 Another issue is if you look at the Pew
21 Web Site, you search for Indians, tribes, or
22 Native Americans, nothing comes up. So, you can't

1 go to standard places to find information about
2 Native Americans.

3 You take a look at FCC Form 477, and
4 there's information there that includes
5 information on Native Americans, but it's not
6 mapped to reservations. So, you can't see what's
7 going on, and that's a real issue because if you
8 base it on census blocks, if you base it on ZIP
9 codes, most reservations are surrounded by Anglo
10 communities right on the other side of the border,
11 so that if you have a ZIP code that crosses the
12 boundary and you're trying to use that in place of
13 actually researching the information from the
14 reservation, you're going to pick up a lot of
15 people in the non-Native community in that ZIP
16 code or that census block.

17 The nice thing is the Department of
18 Census is redoing the census blocks for Native
19 Americans. They will in this next census be
20 contiguous with the reservations. So, we should
21 get some good, solid, Native American data out of
22 that.

1 As I mentioned, one of the biggest
2 problems is the whole out of sight, out of
3 database problems. A classic example is that is
4 the electrical grid mapping that was done. Many
5 of the electrical lines ran up to the reservation,
6 and then there's no data. It's a black hole, it's
7 the Twilight Zone. And that means that people
8 don't plan because they don't have the data for
9 it.

10 My favorite one was the computer that
11 was designed to improve the electrical grid. It
12 saw this black hole, thought that it was some sort
13 of geographical feature, and literally proposed
14 the routing of the new lines right around the
15 borders of the reservation, totally ignoring the
16 fact that there were actual lines there and that
17 they could cross the reservation.

18 The other thing that you want to be very
19 sensitive of, and this is a big problem with the
20 mapping, is tribes think of themselves as the
21 equivalent of states, and under most federal laws,
22 they are treated as states. So, you don't want to

1 go to a state and ask them to collect information
2 from the tribe. That's what's being done with the
3 national map, and we're working on that. We think
4 we have a fix for it, but you're going to have a
5 lot of upset Natives if you're expecting states to
6 get information from tribes.

7 My favorite one that really gives
8 statisticians in Washington weird looks on their
9 faces is many of these reservations don't have
10 street addresses. Where people are located, they
11 don't have street names, and they certainly don't
12 have street numbers.

13 There are at least two reservations I
14 know where every individual on that reservation
15 shares the same post office box. And in one of
16 those cases, that post office box is not on the
17 reservation.

18 So, once again, if you're doing it by
19 ZIP code, you'd be looking at individuals that
20 aren't even on that reservation.

21 So, what do we do and why do we care in
22 the National Broadband Plan?

1 The reason is care is these are
2 sovereign nations, they have been there for 200
3 years, they're going to be there, and they need to
4 be dealt with.

5 Two, you look at the numbers here, and
6 it cracked me up when I was looking at the numbers
7 for any group you wanted to name. The broadband
8 penetration in the Native community is estimated
9 at 5 percent. The lowest number I saw up there
10 was, I think, 20 percent for any other group, and
11 most of the groups are over 50 percent. So, the
12 group that most deserves efficient and effective
13 planning from the FCC, and you don't need to work
14 with 563 entities. There are tribal associations;
15 there are 20 of them that cover 98 percent of all
16 of the tribes, and they're very useful to work
17 with.

18 In addition, this is a crucial year.
19 We've got four months before the national
20 broadband comes out. We've got 11 months left for
21 the \$7 billion in the BIP and BTOP funds to be
22 allocated to the primarily rural areas. The

1 networks that were put in originally, the
2 railroads and the electrification networks are
3 still where they were put in in 1870 and 1930.
4 So, what gets done this year and funded this year
5 is going to be there for the next 30 to 40 years.
6 So, for Natives, this period of time over the next
7 four months with the FCC and over the next 11
8 months with the NTIA and the Rural Utility Service
9 that are funding those programs is absolutely
10 crucial for us.

11 So, I thank you for your time.

12 MR. PRUNER: Great. Thanks, Mark.

13 Professor Catherine Sandoval has been working on a
14 wide variety of issues in media and telecom for a
15 few years. She's not that old. Certainly not as
16 old as I am. And she actually was here, I don't
17 know, just a few weeks ago, and started a
18 presentation. We had done it at night and
19 Professor Sandoval clearly had much more to say,
20 and, so, we sort of worked both on this
21 presentation, which she helped me with greatly and
22 just sort of helping to sort of think through what

1 we ought to be looking at, and I've asked her to
2 sort of bat cleanup here and to give us some sense
3 of the challenges. And we've, I think, gotten a
4 pretty clear sense of that, but challenges both
5 related to language and the sort of new
6 technologies that folks are adopting.

7 So, Professor Sandoval?

8 MS. SANDOVAL: Thank you. Thank you
9 very much, Mark, and thank you to the whole team
10 for putting this together. I know that there were
11 also many advisors who were instrumental in this
12 hearing and making sure that the FCC, as we're
13 looking at broadband, really puts front and center
14 the issues of diversity.

15 So, I wanted to talk a little bit about
16 some of the access gaps, and then also how this
17 ties in with some of the issues about other
18 technologies and looking at are these other
19 technologies complements to wireline or cable,
20 terrestrial, if you will, broadband or are they
21 substitutes?

22 So, when we've talked about access gaps,

1 we've discussed some of the different categories.

2 So, one of those categories would be rural, and
3 within rural, my colleague here, Mr. Pruner, I
4 think has identified some very important issues
5 with regard to Native Americans, but there's also
6 a huge number of Native Americans who are urban,
7 and in the State of California --

8 MR. PRUNER: I didn't have time for that
9 part.

10 MS. SANDOVAL: Right, exactly. In the
11 State of California, I'm a member of the Board of
12 Expert Advisors for the California Emerging
13 Technology Fund, and, so, one of the groups that
14 we've identified as having very low levels of
15 Internet access overall, but also broadband
16 access, is Native American tribes, and, of course,
17 there are issues both in the tribal lands, but
18 also urban issues, and, so, I'll also be talking
19 about some of the urban issues.

20 So, we've talked about other categories,
21 income, education, language, non-English-speaking
22 race, ethnicity, age, and disability, and, of

1 course, many of these things often overlap.

2 So, in talking about rural, so, one of
3 the issues, as well, about rural gaps is also how
4 rural is defined. And in states like California,
5 this creates a lot of problems because many of the
6 federal rules basically exclude areas that contain
7 certain major cities, and my colleague, Professor
8 Al Hammond, has done a lot of work on this
9 particular issue.

10 So, for example, in central California,
11 because of the size of the City of Fresno, most of
12 the rural areas around it are excluded from the
13 definition of rural. Although, if you went there,
14 what you would see is people picking strawberries
15 and picking other crops in the field, and very,
16 very quickly, you get into extremely rural areas
17 that are farmlands, but, yet, because of their
18 proximity to Fresno, they are not defined as
19 rural, and, therefore, become ineligible for
20 certain types of rural support.

21 So, we need to really look at those
22 distinctions, and, so, I'm looking at the example

1 of California in part because I'm from Los Angeles
2 and now live in the Bay Area, but, also, we've
3 been looking at these issues.

4 So, for example, in the San Joaquin
5 Region, where Fresno is, 285 communities in that
6 area lack any broadband access apart from mobile
7 access, and even in what we call the Inland Empire
8 by San Bernardino, there are 189 communities that
9 also lack broadband access, but, again, are not
10 counted as rural because of the presence of San
11 Bernardino in San Bernardino County.

12 So, the other piece, when we look at
13 areas where there are basically availability gaps,
14 and, so, one part of the availability gap is
15 rural. So, a lot of that is about build out.
16 They're too far from the DSL headend to be able to
17 get DSL. Cable was never built there.

18 And, in the case of Native Americans, I
19 think that there are a number of issues that
20 actually are involved with that, as well.

21 I used to be the undersecretary for the
22 State of California's Business Transportation and

1 Housing Agency, and one important thing on the
2 transportation side is, for example, in the County
3 of San Diego, there are more Native American
4 tribes in the County of San Diego than there are
5 cities in the County of San Diego. And, so,
6 basically what happens with this state is that the
7 state allows the localities, usually the county,
8 to have a vote in how some of the highway money
9 will be used within the state. And, so, the
10 County of San Diego decided that they didn't want
11 to give the tribes a vote because, guess what,
12 there are more tribes than there are cities, so,
13 the tribes could outvote them.

14 So, the tribes are an advisory
15 committee, and, so, naturally, when the county
16 decides how it's going to spend its money, the top
17 priority of the county is not improving highways
18 to tribal areas. So, it's structurally designed
19 so that they can outvote the tribes. They do that
20 by not giving the tribes a vote. But what happens
21 is that often telephone poles follow highways. If
22 there are no telephone poles, then you can't get

1 DSL. If there are no telephone poles, you don't
2 have the ability to do the attachments that are
3 important for cable. And, so, you'd end up
4 without cable. And, so, there are a lot of issues
5 about why deployment doesn't happen, and, so, we
6 need to take this holistic look at this range of
7 issues. And the same thing happens in some of
8 these other areas that are farm-working areas or
9 other types of rural areas.

10 And then I'm also very concerned about
11 some of the laws some of the states have passed
12 that allow video franchises, which I think will
13 bring about good things, but have no requirements
14 or very limited requirements for build-outs to
15 low-income communities. So, the question is:
16 Will we see that investment in the future?

17 So, on the one hand, we have these
18 availability issues which are really critical, and
19 then, on the other hand, you have adoption issues.
20 So, one of the things that the Public Policy
21 Institute of California and California Emerging
22 Technology Fund have found is that the county in

1 California with the lowest adoption rate for
2 broadband and for Internet as a whole is Los
3 Angeles; the second largest city in the nation,
4 the largest city in California, where only 48
5 percent of the residents have Internet access at
6 home.

7 So, this is largely not a problem of is
8 the infrastructure available, but issues of
9 affordability and other issues which affect
10 adoption. So, I'll talk about that.

11 So, issues driving access gaps. One,
12 lack of a computer. So, do you have a computer at
13 home? So, this is some of the data, and I
14 apologize, there wasn't data available on Native
15 Americans that I could find easily.

16 MR. PRUNER: There isn't.

17 MS. SANDOVAL: Right, there you go. So,
18 this shows you some of the data on people with
19 computers at home, and, so, I imagine if we were
20 able to go granularly into the age of the
21 computers, that there might be huge difference
22 there. And, so, we see a big difference in terms

1 of just physical lack of computers, and then once
2 you get in addition of the lack of computers,
3 there's also a lack of knowledge about computer
4 use and Web use and its benefits. And when you do
5 surveys, there are also a number of concerns that
6 people have when you talk to non-users.

7 So, again my colleague, Professor
8 Hammond, along with Professor Rafael at Santa
9 Clara, did some surveys talking to individual
10 community members about what their concerns were
11 with regard to the Web and why they didn't have
12 access or what they also wanted in a proposal
13 within the Silicon Valley to do a wireless
14 network, and chief among the concerns were about
15 computer safety, right? Privacy. They're
16 concerned about privacy, they're worried about
17 identify theft, and they're also worried about the
18 content that a computer might bring into the home,
19 including pornography. And, so, educating people
20 about filters, how to use filters, but also how do
21 you manage these issues? Is part of dealing with
22 the fear and real concerns about what computer use

1 will bring, but there's also a lack of knowledge
2 of the benefits, and I think one of the things
3 that's important is to make sure that, as the FCC
4 investigate these issues, that the FCC doesn't
5 simply ask people who are already online well,
6 what do you think broadband is and what do you
7 think are the barriers to getting even better
8 broadband? You also have to ask people who are
9 not online.

10 So, in the State of California, we've
11 been having meetings in six different languages
12 asking people what the barriers are, and, so, that
13 kind of in-language discussion is going to very
14 important.

15 So, this emphasizes some of those
16 issues, and basically this data has been
17 replicated, as well, in the national level.

18 So, in California, we found that while
19 83 percent of English-speaking Latinos use the
20 Internet, only 31 percent of California
21 non-English-speaking Latinos use the Internet, and
22 only 17 percent subscribe to broadband. And,

1 again, the question that you ask is also very
2 important. If you ask somebody do you subscribe
3 to broadband? Well, first of all, the FCC is
4 spending a lot of time trying to figure out what
5 broadband is and how we should define it. And,
6 so, that assumes that even the government knows
7 what broadband is, let alone that the person knows
8 what broadband is.

9 And one scholar sent me a study that he
10 was working on south Texas, which is where
11 Professor Schemment is from. In the Harlingen
12 area, to found out about the state of Internet
13 access, they did some door-to-door research,
14 knocking on doors, talking to people in Spanish,
15 and the first question they asked was not: Do you
16 have broadband, not: Do you use the Internet, the
17 first question was: Do you know what the Internet
18 is? So, we need to think about how we frame the
19 question in talking to the community.

20 So, the same gap has been documented by
21 Pew at the national level, so, this is not just a
22 fluke of our state, but it's also a national

1 issue, and Pew has also documented similar gaps
2 for African-Americans, non-high school graduates,
3 people with low incomes, and then also people with
4 disabilities, right. And then as you add onto
5 disability language issues, rural issues, race and
6 ethnicity issues, all of these issues can pile on.

7 So, one of the things I was speaking to
8 John Horrigan about earlier was the importance of
9 data sources, including Pew, but also the FCC
10 making sure that as we're looking at the broadband
11 issues, that we don't just survey in English and
12 that we don't try to characterize the
13 English-speaking world as America because America
14 is increasingly diverse, so, we need to reach out
15 in other languages, and also look at the computer
16 issue, and then I want to close by talking a
17 little bit about the wireless use issue.

18 So, as has been discussed, Latinos and
19 African-Americans do have high levels of wireless
20 use, and minority communities are more likely to
21 also be cell phone only households, but even
22 though some of the surveys are showing that

1 Latinos are more likely to use the cell phones for
2 e-mails and Web than are Anglo households, this
3 also doesn't mean that this is necessarily the
4 solution to the broadband problem.

5 This gets back to what I was saying
6 about looking at complements, not substitutes,
7 because part of the issue is that especially for
8 cell phones, there are many limitations on
9 bandwidth, much more limited availability of
10 bandwidth and a lot of rules that the Internet
11 service provider imposes on bandwidth
12 consumptions. Some ISPs decide what applications
13 you can download. A fundamentally different
14 concept of the Internet.

15 I think it's different, but it's not
16 what most of us think about with regard to
17 Internet. Most wireless companies prohibit
18 attaching a computer. So, you have device
19 attachment prohibitions. Some allow computer
20 attachment for extra fees, and, so, these device
21 attachment issues come into play. And, so, there
22 are a number of issues that really indicate that

1 these technologies are complements and not
2 substitutes.

3 And then, also, I think when we look at
4 barriers that we need to be talking about issues
5 about access to credit. So, for some services,
6 you need a credit card or you need good credit to
7 be able to get access to the services. So, as
8 we've talked about with income, let alone what's
9 happening with the recession, people who are
10 losing their houses are going to have terrible
11 credit.

12 So, one reason I think that Latinos and
13 African-Americans have such high levels of
14 wireless use is because the availability of
15 prepaid wireless where credit is not an issue.
16 So, we're just starting to see the emergence of
17 prepaid Web, and, so, prepaid Internet, and I
18 think that that's going to be critical.

19 So, I think I'll end there. I talked
20 about the access to credit, so that the FCC needs
21 to identify and report on these access gaps, but
22 also to look at different types of Internet access

1 and not say well, just because you're able to on a
2 two-inch screen access your e-mails, that doesn't
3 necessarily mean that we've solved the broadband
4 problem because we have to differentiate between
5 what products are really complements and what
6 products are substitutes.

7 Thank you.

8 MR. LLOYD: Thank you, Professor
9 Sandoval. Really an awful lot of data that we're
10 sort of throwing at you. The first session really
11 is about what do we know, and then we'll get to
12 other questions about what we can do about it.
13 But we are giving you a lot of data and sort of
14 demonstrating the really true complexity of the
15 first task here.

16 Maureen Lewis, who is with NTIA, I know
17 Maureen has a couple of questions, but NTIA has
18 played, I think, an important and special role in
19 identifying even the terms information has or
20 have-nots or the digital divide, and, Maureen, if
21 you could talk a little about that role.

22 MS. LEWIS: Sure.

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1 MR. PRUNER: And I'm also going to
2 surprise you hear a little bit. If you could talk
3 about your role in pushing 706 of the 1996
4 Telecommunications Act.

5 MS. LEWIS: Thanks very much, Mark.
6 It's really a pleasure to be here among so many
7 veterans of the sort of digital divide wars, and I
8 go back some ways with some of the panelists here
9 and some of the audience members back when I was
10 with the Alliance Republic Technology, pushing for
11 the FCC's implementation of Section 706 to promote
12 the deployment of ubiquitous broadband access to
13 the home.

14 I met some of my colleagues here today,
15 and, so, while I'm saddened that we're still
16 talking about the fact that there are so many
17 access gaps in America and that we're still
18 working very hard to close those gaps, I'm really
19 pleased to be here to represent the National
20 Telecommunications and Information Administration,
21 which is the president's advisor on
22 telecommunications policy, and, as you know,

1 President Obama is very committed to making sure
2 that the gaps that we've been talking about here
3 are closed.

4 So, one of the things that I'm doing in
5 concert with my colleagues at NTIA, we're working
6 very hard to implement the broadband technology
7 opportunities program, which is a grant program
8 which gives the opportunity for a number of
9 different entities, non-profits, state and local
10 governments for-profit entities. NTIA has been
11 allocated up to \$5.2 billion for broadband
12 projects to promote the deployment of broadband
13 infrastructure to un-served and underserved areas.
14 We're also going to be providing grants to help
15 establish or expand public computing center
16 capacity, as well as to promote the adoption of
17 broadband technologies.

18 In addition, NTIA is working to provide
19 grants to the states to allow states to map their
20 broadband access to help in the development of a
21 national broadband map. So, we're working very
22 closely with our colleagues at the Federal

1 Communications Commission, and it's really a
2 pleasure to be here, and I do have a couple of
3 questions that I'd like to ask, if I could.

4 One of the things that I guess I heard
5 Mr. Tobias mention was this whole idea of
6 technology pessimism, and you talked about it
7 being high among the disabled community, but it
8 struck me as you talked about it that the income
9 gaps and the language gaps and the education gaps,
10 those are also probably areas where people who are
11 struggling to survive are experiencing technology
12 pessimism, and I wondered if any of the panelists
13 wanted to speak to that, and whether or not also
14 you are aware of any studies that might have been
15 done that demonstrate once exposed to broadband
16 and broadband applications that the high-level of
17 concerns about relevance change.

18 MS. LEWIS: I think it's a very
19 important issue because I think it cuts across all
20 of the adoption lowering factors. I really think
21 it is a generic -- and consumer research over the
22 years, especially the typology of Everett Rogers

1 with the innovator, early adopter, et cetera, and
2 then unnecessarily negative term laggard, which I
3 don't know, I mean, there are probably reasons for
4 people not to adopt technology.

5 So, we need to be clear that we
6 shouldn't be at an evangelical mode, but I agree.
7 I think that diving into some of those questions
8 about relevance, I don't think it's just us, and I
9 think we're probably more early adopters here in
10 this room than not.

11 It's not just our enthusiasm about these
12 capabilities that's really transformed
13 transformational technology that projects on to
14 non-adopters what's the matter with you folks? I
15 really think there is something there, and I think
16 we need to dive into it. It is, I think, much
17 more a cultural issue, a personal psychology
18 issue, a lifestyle issue, and a social network
19 issue, all right. People who don't have a lot of
20 friends who use the Internet don't hear about how
21 good it is in ways that would encourage them to
22 adopt it. So, just to find out more about it and

1 then to look at the -- again, I'd like to
2 emphasize a light touch regulatory regime that
3 would encourage dissemination, induced
4 dissemination rather than enforced, mandatory
5 usage.

6 MR. PRUNER: I think Jim's right. In
7 the Native American community, we see just the
8 opposite. The Native public media, which is the
9 one place that you can get some information, they
10 run their operation on a shoestring, but they do
11 have valuable information. Has shown that when
12 Natives have the opportunity to get broadband and
13 to use the Internet, they adopt it and they adopt
14 it quickly. Part of that is cultural, as you were
15 talking about. Is the fact that Native Americans
16 have always been great storytellers, and they also
17 like to create art. Both of those things they
18 enjoy doing in a multimedia manner, and we see
19 lots of that.

20 My favorite story was Wednesday, we met
21 with NTIA and RUS about the provisions having to
22 do with Natives, and we notified tribes on Friday

1 because this area is moving so quick. Three
2 people flew all the way from Barrow, Alaska, the
3 very northern point in Alaska, took them 24 hours
4 to get there to Washington, and she was telling us
5 about how Internet service is used there, it's
6 satellite-based. Sixty-five percent of the people
7 in this remote, native village use the Internet,
8 and it's not a very high income area, but when
9 they have to make a choice between having running
10 water and having Internet service, they pick the
11 Internet service.

12 MS. LEWIS: Wow. I think, also, that

13 not all of these issues are demand side, that
14 there are some things that the supply side is
15 doing that also sometimes can thwart access or
16 accessibility.

17 So, one example of that, when I was here
18 about a month ago, I was on the Metro, and I saw
19 an advertisement for this particular company that
20 was advertising unlimited Web, text, and phone,

21 and I wrote a paper recently called "Disclosure,
22 Deception, and Deep Pocket Inspection," which

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1 (inaudible) is going to publish, and part of what
2 I argue is that carriers should not be able to
3 advertise their Internet service as unlimited if
4 it's not actually unlimited. And it's very
5 important to disclose to people what are the
6 material limits, especially when you're placing
7 material limits on applications, let alone device
8 attachment, et cetera.

9 So, I took down the name of the company
10 and then when I got back to California, I went
11 into their Web Site and called it up. Well, my
12 14-year-old niece a couple of years ago, I had
13 hired her to help me get my files in better order,
14 and I was watching her work on the computer, and
15 she did this little zoom thing and it made
16 everything bigger. I said, oh, my God, how did
17 you do that? All right, so, she shows me how to
18 use the zoom button, thank God as I get older.
19 But now I learned from my niece how to use the
20 zoom button.

21 And, so, this print was so small, and I
22 thought well, I know the magic button; I'll use

1 the zoom button. Guess what, it wouldn't let me
2 zoom it to make it bigger, and especially because
3 they had all this unlimited, and then there was
4 this really small print, and I thought I'll just
5 zoom it and make it bigger. They disabled that.
6 You couldn't make it bigger, which certainly has
7 huge issues for people with disabilities. Okay, I
8 can see with glasses, let alone my aunt who really
9 needs the print to be this big, but it also
10 creates huge issues for just consumer information.

11 And, so, I think it's easy to say oh,
12 it's a demand side, people don't know or whatever,
13 but we also have to look at what is happening on
14 the supply side that also thwarts use and creates
15 this discouragement?

16 I also wanted to ask the panel, as NTIA
17 looks to resume some of its research on closing
18 the digital divide, what other areas ought we be
19 focusing on? I mean, certainly Mark talked about
20 making sure that we work to identify gaps in the
21 Native American community.

22 NTIA has worked with the Census Bureau,

1 a sister agency of the Commerce Department, to
2 gather data on Internet use and availability. So,
3 are there some other areas that within the context
4 of a digital divide study that we ought to be
5 really focusing on where we can get more
6 fine-tuned information?

7 MR. SCHEMENT: I have two, quick
8 suggestions. One is in the early 1980s, when I
9 first started looking at data that had to do with
10 the relationship between income, ethnicity, and
11 access to the telephone, I saw these gaps even
12 within the same income range, and I couldn't
13 explain them. So, now, it's 25, going on 30
14 later. I still can't explain them. We still
15 don't understand why these kinds of gaps persist,
16 and there are answers.

17 And, so, I would say one is, to the
18 extent that NTIA can get a better handle on that,
19 then they can make some progress on closing the
20 gaps.

21 The second thing is that we talk about
22 access, and here is an example of I think the

1 failing of policy. We talk about access as if it
2 is the final goal, when, in fact, the technology
3 is a very complex technology that also requires
4 skills, competencies, and a basis for
5 understanding them.

6 I understand that it's very difficult
7 for one agency to cooperate with another agency,
8 but I would hope that in the 21st Century, when we
9 talk about access, we also talk about education
10 and we also talk about the social capital needed
11 to make something of it.

12 And let me tell you why I think it's
13 important. In telecommunications and
14 telecommunications economics, we have relied for
15 many years on a concept we call the theory of
16 network externalities. And that means that, as
17 you add more people to the network, the network
18 becomes more valuable to the people who are
19 already on the network because they have more
20 opportunities to connect. What we are beginning
21 to understand about Internet networks are that it
22 isn't just about whether you're connected to the

1 network, it's about the innovation that takes
2 place on the network. The business model of the
3 Internet doesn't produce content that you consume,
4 it sells content you produce. Right? That's how
5 YouTube, that's how all of these business models
6 function. They're counting on you to produce the
7 content.

8 So, the theory of network externalities
9 in the Internet Age should probably be called the
10 theory of dynamic network externalities because it
11 is what we bring to it that gives the network its
12 value, therefore, we want all these people who
13 aren't connected to bring something to it because
14 the changes are what they have to offer is not
15 what we've been bringing to the network; there are
16 other things out there on the network that's going
17 to make the network more valuable.

18 So, for those reasons, I think the
19 stakes are high.

20 MS. SANDOVAL: And I think, also, just
21 doing focus groups, as Professor Schement is
22 suggesting, with the non-users to find out about

1 barriers, it's very important to do that in a
2 variety of languages, to also make those
3 accessible, look at a variety of groups where
4 we've identified some of the gaps, that that's
5 absolutely going to be critical.

6 And then NTIA has long been a leader
7 also in looking at traditional media, what we'd
8 call now traditional media like broadcasting.
9 Over 90 percent of Americans still use radio for
10 news and information and reliance on radio is even
11 higher for African-Americans and for Latinos, and
12 there are a number of tribes that also have
13 commercial and non-commercial radio stations.

14 So, radio and television continue to be
15 a very important media, especially for a lot of
16 communities that do not have access to computers,
17 and, so, we have to think, again, about
18 complements, not substitutes, and how can these
19 work together?

20 I've been doing a study on minority
21 radio broadcasters. I've identified approximately
22 325 different minority owners of approximately 850

1 minority-owned radio stations, about 72 percent of
2 those are programmed specifically to serve
3 minority communities. So, there's a very high
4 relationship between minority ownership and
5 content, and about 300 of them have very active
6 Web Sites, and, so, we see the broadcasters are
7 leveraging into the Internet, but, also, they're
8 long-trusted voices who may also be able to help
9 leverage access in the communities and know what's
10 going on to be able to help in that assessment and
11 to improve access to a variety of technologies.

12 MR. PRUNER: Yes, and a couple of quick
13 points on that.

14 Professor Sandoval is right, Native
15 public media is called that because those are the
16 Native radio stations, and the woman there has
17 done a wonderful job of reaching out beyond that.

18 The other thing, I think one of the
19 reasons Natives are often left out is they're
20 remote, and the survey costs are expensive. So,
21 while you were talking about don't survey
22 broadband people who are already on the Internet

1 necessarily, if you have no data, some data is
2 better than none. So, a bottom-up approach with a
3 Google mash-up with longitude and latitude-based
4 data as proposed to stress address data where the
5 people can get involved.

6 Professor Schemment was talking about
7 network externalities. Bob Metcalfe has
8 Metcalfe's law, that the power of the network is
9 the square of the numbers of users. He and I got
10 into a discussion as to who first used the word
11 "Internet" many years ago, and, so, if he has a
12 lock, I could have Pruner's paradigm, which is
13 that when you have two communities on and off the
14 reservation, if you multiply the penetration rate
15 times the speed in each community and then look at
16 the difference, that's the harm that's being done
17 in that community. So, you might look, because if
18 one area doesn't have the bandwidth and the uses
19 that the other area has, both communities are hurt
20 because they're common, economic unit. So, that's
21 another thing to look at is how the surrounding
22 communities are being affected.

1 MR. LLOYD: So, we have a number of
2 questions from the audience, both the online
3 audience and the audience in front of us. We have
4 almost a half hour, actually, to try to get
5 through some of these, and I'm going to ask, to
6 the extent possible, short answers, but some of
7 these are some tough questions.

8 There was a question that I can answer,
9 and that was: Will slide presentations be
10 available online? And they will be available
11 online.

12 Let me also say that Dr. Nicole Turner
13 Lee was here to present I think a couple of

14 sessions ago, and the Joint Center for Political
15 Studies has some really very good poll data online
16 about particularly the African-American use of
17 broadband, and I believe those studies are both
18 online on our Web Site and also on the Joint
19 Center for Political and Economics' Web Site, as
20 well.

21 A couple of questions here. What
22 happens to immigrant data, and are they

1 incorporated into the demographics for other
2 populations? And, so, we have data for
3 African-Americans, do we have African-American
4 immigrant data? We have --

5 MR. PRUNER: Actually, we think of you
6 all as the immigrant community.

7 (Laughter)

8 MR. LLOYD: So, we have data on
9 Asian-Americans, just a little, although, we
10 haven't had much discussion really. I think Jorge
11 talked a little bit about Asian-Americans. We've
12 got data on Asian-Americans, but do we have
13 immigrant Asian-American data, and the same thing
14 for Latinos. Do we have good immigrant data?

15 Anyone?

16 MR. SCHEMENT: We don't have very good
17 immigrant data for the reason that when we do our
18 surveys, and it doesn't matter who's doing the
19 surveys, the more different groups you're serving,
20 the smaller the cells are in the survey of the
21 number of people surveyed, and below a certain
22 point, it's very difficult to draw any kinds of

1 conclusions because you have so few people in the
2 survey.

3 So, in the future, that problem is going
4 to get worse because there's going to be more
5 diversity in the population, and we'll either
6 follow an approach that says well, ignore all of
7 that and just lump everybody together and we'll
8 tell you what we think is happening to some uber
9 group, or we'll have to have larger sample sizes.
10 Larger sample sizes means more money, and, so,
11 that will make surveys more expensive.

12 So, I don't anticipate that we're going
13 to have better quality information about a lot of
14 different groups unless we really work hard at it
15 and unless we put the resources into doing it.
16 Although, I will argue that the demand for better
17 data is going to go up because the private sector
18 is going to want that data.

19 MR. LLOYD: So, one of the questions we
20 had pretty early on from our friend, Janelle
21 Trigg, really is about data related to small
22 businesses and broadband. Do we know and do we

1 aggregate data in a way to determine what it is
2 that small businesses are both doing, who those
3 small businesses are? What do we know about small
4 business and broadband?

5 MS. SANDOVAL: I think it's extremely
6 limited, and I think what these great questions
7 are pointing out is that the researchers and the
8 government has not necessarily been asking the
9 right questions or using the proper methodologies,
10 and, so, I think that a lot of businesses are
11 growing with adoption, but that there are still
12 gaps and that businesses could benefit more from
13 some training, but also some of that will also
14 depend upon what's the benefit they're going to
15 get out of it in terms of their users?

16 And, so, if they have a lot of customers
17 who are not online, the business may benefit from
18 doing some business side stuff, but less so with
19 the customer. So, I think that this is an area
20 that definitely merits greater exploration, as
21 well as when you look at, again, the application
22 side. By that, I mean the policies of Internet

1 service providers that might potentially constrain
2 use of applications as something that also affects
3 small businesses, as well as people who are doing
4 innovative things, in particular when you talk
5 about bandwidth intensive uses, that can run up
6 very quickly against network management policies.

7 MR. PRUNER: Yes, and one thing on the
8 flipside of that, the Department of Commerce has
9 lots of information, but you have to pay for it.
10 You have to subscribe to it. So, I would
11 encourage any information that is gathered -- and
12 it may not be the Department of Commerce, but
13 there is a Web Site that has lots of
14 business-specific data. You go there, you have to
15 pay a subscription fee. If you're a small
16 business and you need one fact for that day, and
17 you know it's there, you can see the study, but
18 you've got to pay for it, a lot of small
19 businesses aren't going to do that, whereas a
20 large corporation can subscribe for the whole
21 corporation.

22 MR. LLOYD: So, Maureen, did you want to

1 speak that?

2 MS. LEWIS: Yes. No, I was going to say
3 the Department of Commerce does publish a lot of
4 statistical data that is available on our Web Site
5 --

6 MR. PRUNER: Right, there is a lot --

7 MS. LEWIS: -- for free (inaudible).

8 MR. PRUNER: Yes, I don't --

9 MS. LEWIS: But, yes, so, I just want to
10 make sure that people do understand that, but, to
11 your point, there is an agency at the Department
12 of Commerce, the Minority Business Development
13 Agency that I know is very interested in making
14 certain that minority businesses in particular are
15 adopting broadband, and they have done some
16 studies that I think the last one was maybe about
17 two or three years ago. So, that information is
18 online at mbda.gov.

19 MR. TOBIAS: I think this is an area
20 where public-private partnership would be
21 extremely valuable to both sides. In other words,
22 you have carriers and broadband manufacturers who

1 would be very interested in working on awareness,
2 adoption, sustainability, retention research. So,
3 you have this huge program there with more or less
4 captive grantees who are predisposed to agree to
5 participate in research studies that are not
6 naturalistic like the ones we mostly get a chance
7 to do, but are actually designed studies that say
8 here's an intervention that we plan on
9 accessibility or in small business adoption or
10 whatever, and here's the control group and here's
11 the test group, and you can get some great results
12 using the program that you already have rolling
13 out.

14 MR. LLOYD: "Captive grantees."

15 (Laughter)

16 MR. LLOYD: What a term. Cathy, I think
17 this is for you. Eighty-three percent of
18 Hispanics use broadband in California. What
19 percentage of that is the total Hispanic market?
20 Do you have any --

21 MR. SCHEMENT: What percent of
22 California is the total Hispanic market?

1 MS. SANDOVAL: So, Professor Schement
2 was saying the question is: What percentage of
3 California is the total Hispanic market? I don't
4 have that number right off of my fingertips, but
5 California is one of the states that has no racial
6 or ethnic majority. It is a plurality, and I
7 believe that Hispanics make up around 35 to 40
8 percent of the population in the State of
9 California. When you're talking about cities like
10 Los Angeles, it's much higher, but we also have a
11 very substantial Asian population, both
12 longstanding residents who've lived there for
13 decades and generations, and recent immigrants,
14 and certainly, my study showed there were a number
15 of Chinese and Vietnamese language radio stations
16 in the Los Angeles area, as well as just a huge
17 diversity in Los Angeles.

18 So, I could follow-up if somebody wants
19 to e-mail me and get some more information on
20 that, but I think that the point is from what Dr.
21 Schement was saying, that the Latino population,
22 in particular, is growing and growing nationally

1 also in places like Georgia, that there's huge
2 growth, and, so, some of these issues that we're
3 seeing in California are also replicated in other
4 states.

5 MR. LLOYD: So, I've got a couple of
6 questions that I'm going to combine here.

7 One is directed to Mr. Pruner. What
8 potential exists for a Native American-oriented
9 cable television network that would be provided
10 through increased broadband availability?

11 And the other question has to do with, I
12 think, radio programming in prompting adoption.
13 And, so, these are really more questions about is
14 there better content or is there a different sort
15 of content that can be provided that would promote
16 adoption?

17 MR. PRUNER: Yes, and that's one thing
18 we've been pushing for with NTIA is to take the
19 reserve funds and put them into sustainability
20 projects for education. So, yes, we think that
21 there are programs that can be done.

22 I went through, and of the 2,200

1 applications that were filed for the BIP and BTOP
2 Programs, 60 of them approximately mentioned
3 Indians, Native Americans, or tribes in any way.
4 Of that, 24 tribes actually applied.

5 What we saw in several cases were people
6 were throwing in Native Americans as kind of a SOP
7 to get additional points. So, if you're planning
8 on doing cable television programming with the
9 Native community, you need to talk to the Native
10 community before you do that.

11 In one situation in Washington State,
12 the reservation is the size of Massachusetts.
13 They want to put WiMax across the entire
14 reservation. A local broadband supplier came to
15 them and said well, we'd like to do that over here
16 in the western portion where it's adjacent to us.
17 Please withdraw your application. They didn't
18 think that was good idea, and they said we're
19 going to go ahead and file. When they looked it
20 up online, it turned out the other company was
21 filing to serve their land even though they don't
22 necessarily have a right to go on it.

1 So, any time you're working with Native
2 groups for Native programming, the thing to do is
3 to contact them.

4 As I said, there are some commonalities,
5 particularly in a region. Northwestern Indians
6 generally share a culture. You've got the
7 Algonquin language in the northwest. But to do
8 programming for all Natives and all areas, while
9 we all get along and we work with each other,
10 we're all very prideful of our particular nation.

11 MR. LLOYD: Well, one of the challenges,
12 and, Jorge, I know that you speak to this, and you
13 may want to sort of jump in here, is that it seems
14 to me that when we look to spurring adoption, that
15 we need to have a much better understanding of how
16 different populations are attracted to some
17 particular content, or even to Cathy's point, a
18 particular application. And I guess that's also
19 Jim Tobias' point.

20 So, for the purposes of this panel, how
21 do we get that information about how these
22 different populations are attracted to particular

1 content, whether it's cable television programs,
2 radio, or whatever?

3 MR. SCHEMENT: It's a good question, and
4 as an example of the differences in
5 characteristics of adoption, we did some household
6 interviews in rural Pennsylvania a few years back
7 with Latino families in rural Pennsylvania. All
8 right, so, there weren't all that many of them
9 that we interviewed. But we found that they were
10 all highly connected in some way. Either they had
11 Internet access or wireless or something and that
12 the driving motive for all of them was what,
13 talking to grandma in Mexico. That was the
14 driving motive. In other words, communal family
15 characteristics were driving these particular
16 adoption characteristics.

17 Now, my guess is that we could identify
18 a number of Latino families with some different
19 characteristics elsewhere, and we might or might
20 not see that turn up, but the by and large
21 different groups tend to be driven by similar
22 motives, but also by dissimilar motives. My

1 suggestion is that we need to do what we haven't
2 really done very well, is just go out and talk to
3 people. Go out and find these communities and sit
4 down and talk to people in the community and look
5 at the change that's taken place in communities.

6 I taught at Rutgers in the 1980s. There
7 was no discernable Latino population, and I really
8 missed getting pan dulce for breakfast. Now, New
9 Brunswick is half Mexican. All right, so, in
10 about a 20-year period, that part of central New
11 Jersey will begin to change quite dramatically.
12 Now I can get more bread than my age says I should
13 eat.

14 (Laughter)

15 MR. SCHEMENT: Any time I want. So,
16 these sorts of changes tend to take place under
17 the radar screen even for some of us, and, yet, we
18 need to be quite cognizant of them, and I think we
19 just need to get out and talk to people.

20 MR. TOBIAS: I think that's absolutely
21 right. It's exactly the same with respect to the
22 disability communities that there are assumptions

1 about the needs, and then there are the realities,
2 and some of the assumptions are right, but you
3 won't know that for sure until you go out and talk
4 with consumers, and consumers are very diverse,
5 not only across disability characteristics, but

6 their own preferences, just as any other consumer
7 would be.

8 If we want to ask the question: Why do
9 people make the move over to Internet or
10 broadband, we have to understand how they're
11 getting their information and communication needs
12 met now. What are they using? And who are they
13 communicating with now?

14 It's a two-party communication; it's not
15 enough if I adopt Skype, I have to find somebody
16 else I want to talk to who also has Skype and is
17 Skype-accessible for both of us. That's the kind
18 of qualitative, to begin with, very rich,
19 narrative, and interview and focus group-driven
20 data collection that, again, I think NTIA is
21 really well-positioned to get started on.

22 MR. LLOYD: So, one of the challenges I

1 think that we had is -- well, let me just ask this
2 question: Do we have good information about the
3 Asian-American community in the U.S.? I know
4 there's a sort of model, minority myth about
5 Asian-Americans, and we don't have to worry about
6 them, that they all have Internet and they're all
7 online. But, it seems to me there's an
8 extraordinary difference between recent immigrants
9 and Asian-Americans and Asian-Americans who've
10 been here for a long period. This is an
11 extraordinarily diverse population with many
12 different language challenges, as well.

13 MS. SANDOVAL: Yes, I think with
14 Asian-Americans, it's a group that, again, where
15 the Internet access reports seem to show an
16 extremely high adoption rate XXX BEGIN TRACK
17 MZ000220 XXX but, yet, for example in the State of
18 California, as the California Emerging Technology
19 Fund has been doing these interviews in six
20 different languages, so, I know that they're
21 interviewing people in English, Spanish, Chinese,
22 Vietnamese, I believe Hmong, and Korean.

1 And, so, for example, the Hmong
2 population has for a long time been low-income and
3 also tends to be a very rural population, and, so,
4 one would expect there to be different
5 characteristics that are not well-documented.

6 Filipino is another one, and, so, I
7 think that there is this assumption that all the
8 different national groups where there's huge
9 variations have the same access and the Census
10 does have some data on income levels for these
11 different ethnic groups or different national
12 groups showing huge variations in income, and, on
13 that basis alone, we would expect huge variations
14 in Internet access.

15 So, I think it is an area that needs to
16 be disaggregated more where you're putting
17 together age, generational information,
18 immigration information, linguistic information,
19 rural, urban information to try to get more at the
20 complexity and are there any particular groups
21 where we really see lower levels of access?

22 MR. SCHEMENT: This appeal to

1 desegregation, I think, is quite important. I
2 mean, if you think about it, it is a travesty to
3 refer to the world's largest population as Asians.
4 Right? I mean, if Filipinos and Chinese have more
5 in common besides geography, it's not that much.
6 I mean, they are as different as Europeans are
7 from each other and as we are from them. And, at
8 the same time, we share a lot of the same
9 interests.

10 So, desegregations don't mean that we
11 see everybody's differences alone. What it means
12 is that we pay attention to nuances rather than
13 lumping everybody together and try to achieve one,
14 big outcome. And the reason we have done that for
15 all these years is because the 20th Century was a
16 century of mass marketing of all kinds. It was
17 about aggregating audiences that made the great,
18 national markets what they are. It's what Sears
19 and Roebuck did in the 19th Century, aggregated
20 audiences.

21 So, by aggregating audiences, we
22 developed a sense of population should be

1 aggregated. So, in the 21st Century, what do we
2 see business doing? Desegregating markets in
3 order to penetrate markets more deeply.

4 So, it's a good time to desegregate the
5 way we think about populations, as well.

6 MR. PRUNER: And I think the other thing
7 is quantitative tends to drive out qualitative.
8 We're very good at putting things in spreadsheets,
9 and we're uncomfortable if we can't put it in a
10 spreadsheet, but everybody here has talked about
11 going out and talking to the people, and we're
12 developing systems now to search qualitative data,
13 to search anecdotal data, and be able to base some
14 policy decisions on it. And I think that's a
15 trend you see out there in businesses, and it's a
16 good trend to move into government, too.

17 MR. LLOYD: So, I just got a note from
18 one of our online participants that Native Public
19 Media, which, in addition to working in radio, is
20 a policy advocacy group, is in the final stage
21 analysis on a demographic study of Internet use in
22 Indian Country, and the study is comprehensive,

1 includes case studies, qualitative data. NPM has
2 been working in concert with New American
3 Foundation and the study brought strong
4 demographics on use and will be released in mid to
5 late November, in time for us to really sort of
6 think about our broadband plan.

7 Maureen, did you have something you
8 wanted to --

9 MR. SCHEMENT: Somebody had a question
10 back there. This gentleman here raised his hand
11 several times.

12 SPEAKER: (Off mike.)

13 MR. LLOYD: So, let me repeat the
14 question. We just want to make sure -- this is
15 one of the reasons that we're not sort of just
16 (inaudible) hands, but this is a question about
17 the concept of digital pessimism.

18 MR. SCHEMENT: Technology.

19 MR. LLOYD: And technology pessimism,
20 and what it is that the government can do to
21 address this.

22 MR. TOBIAS: Well, I'm guilty, I guess,

1 of raising it. I only meant it with respect to
2 people with disabilities, generalizing from their
3 unsatisfactory experiences with technology over
4 time. But I think maybe it is a more general
5 trend, but we know that there are ways around
6 that, that to the extent that peer networks get
7 established, and this is what new technologies are
8 so great at.

9 We see logging and blogging and what
10 have you in the disability communities are
11 restoring what in some of those communities never
12 existed. That is, when we speak of the disability
13 communities, especially for people who become
14 disabled later in life, they're not a community,
15 they're not a native, knit community, and, so,
16 we're using these new technologies to try to build
17 the community, and that is very powerful both in
18 communicating the technologies that don't work and
19 the technologies that do work.

20 It's important though as we move into
21 these kinds of more diffuse or abstract notions
22 that if there's no regulatory oversight to begin

1 with, in the accessibility field, everything
2 begins with the law of mandating accessibility.
3 Without that, we really don't get a rich ecosystem
4 that has any accessibility in it because it's too
5 easy to ignore the issue.

6 So, I think we have to maintain focus on
7 both of them, but, certainly, I'm not even an
8 academic, but I get to say more research needs to
9 be done. But we do have some very tantalizing
10 notions of how to intervene efficiently to push
11 back some of the technological pessimism.

12 MR. LLOYD: So, we have, I think, just a
13 couple of minutes left here. And what's the
14 question?

15 MS. PETERSON: I live in Durham, North
16 Carolina, and we have a training program to train
17 intercity youth in the IT industry (off mike).
18 What is happening in that industry to make sure
19 that young, African-American men are being trained
20 to get employment because the other problem, not
21 just that the training is not there in our
22 community, the companies, once we're training our

1 young men and women in the African-American
2 community, these companies are not even hiring
3 them.

4 MR. LLOYD: Okay, so, one of --

5 MR. SCHEMENT: So, how can --

6 MR. LLOYD: Yes, so, we will have two
7 other panels following this. One is going to be
8 on one of the legal issues, sort of compelling the
9 Federal Government to do one thing or another, and
10 what are the limitations? And the final panel for
11 this afternoon will be on best practices, and we
12 hope to really sort of address that question about
13 training and what's being done in particular the
14 African-American communities in that final panel
15 about best practices.

16 So, we're going to, I think, wrap up
17 this panel. I have one question really just to
18 sort of see if I can end things with, and that is:
19 Do we have any data that suggests diversity of
20 ownership makes any difference at all in terms of
21 providing diverse service or providing service
22 that might encourage adoption in particular

1 communities?

2 MR. SCHEMENT: Cathy Sandoval mentioned
3 the study that she's doing which I am extremely
4 interested in because I, 35 years ago, wrote a
5 dissertation under Everett Rogers that looked at
6 minority ownership of radio. At the time, there
7 were only 70 radio stations that broadcast to
8 minorities in the U.S., and only 14 of them were
9 owned by minorities.

10 So, already, there's some change that's
11 taken place. But this was an era of very few
12 media outlets, and in the era of very few media
13 outlets, what we found was that everybody was
14 driven to make money and social issues went by the
15 wayside, and it didn't matter what the ethnicity
16 was.

17 We no longer live in that era. We live in
18 an era of a multiplicity of all kinds of outlets,
19 and I'm hoping that what Catherine will tell us is
20 that things have changed.

21 MS. SANDOVAL: So, my examination of
22 things on the radio side -- I, again, have been

1 focusing on minority owners and their
2 contributions, and one way to look at that is also
3 looking at their Web Sites. So, one of the things
4 I have been struck by is the discussions on the
5 Web Sites.

6 So, for example, many of radio one
7 stations have links to studies on Black America.
8 There are also several African-American-owned
9 stations who are doing a campaign. There's a
10 particular person whose execution has actually
11 been stayed by the Supreme Court and who are
12 urging their listeners and viewers on the Internet
13 to act on that.

14 The Navajo Nation talks about how it
15 uses its stations, which is actually programmed in
16 country, to also educate people about news of the
17 day in the Four Corners Region and the Navajo word
18 of the day to try to do language preservation.
19 And, so, a lot of when you see the Hispanic
20 owners, they talk about what they're doing in
21 terms of trying to reflect the community and its
22 particular needs.

1 So, I think that there is a lot of
2 examples, but, again, when we talk about
3 ownership, we have to identify what are we talking
4 about?

5 With telecommunications and broadband
6 infrastructure, a lot of that increasingly is
7 owned by very large companies. When we talk about
8 cable or DSL or wireless, when we look at Internet
9 service providers, what we've seen is huge
10 consolidation as opposed to, at the time of
11 dial-up, there were over 6,000 independent
12 Internet service providers in the United States.
13 The number now is far lower, and, so, it would be
14 interesting to see as we've had consolidation in
15 the Internet service provider industry, what has
16 happened in terms of service to actual local
17 communities. I think that that is a concern.

18 And, so, where you do tend to some
19 ownership diversity is with applications side,
20 where people are developing specialized
21 applications that may be more responsive to the
22 needs of particular communities, as well of

1 interest to all communities. So, I think that
2 this is important area to be explored.

3 MR. LLOYD: This is great. I want to
4 thank all the panelists. The time has gone by
5 very quickly, and a lot of information and data
6 and probably more questions than anything else
7 sort of coming out of this, but I think we've got
8 some really good advice about the importance of
9 both disaggregated data, very detailed data, but
10 also qualitative studies in talking to people in
11 communities and the range of things from
12 disability to language to applications to
13 ownership to take into account as we look forward.

14 We're going to take a break. We're
15 going to come back with another panel in about 15
16 minutes looking on legal issues. Again, thank you
17 very much.

18 (Applause)

19 (Recess)

20 MR. LLOYD: So, we're going to get
21 started here. We have one panelist who I know who
22 is here that we're waiting for, and I'm sure

1 she'll come back shortly. We are privileged to be
2 joined by Commissioner Michael Copps, who has been
3 fighting the good fight for diversity here at the
4 Federal Communications Commission for how many
5 years?

6 MR. COPPS: Eight years.

7 MR. LLOYD: At least a couple
8 administrations. Eight years. And, again, very
9 privileged to have you join us, and I know that
10 you didn't want us to make a big deal, but if you
11 could just sort of give us a couple of words. You
12 made a point of reestablishing the Diversity
13 Advisory Committee because I know this is an
14 extraordinarily important set of issues for you,
15 and, so, if you could give us an invocation,
16 Reverend, we'd love if you could sort of start us
17 off.

18 MR. COPPS: All right. Well, thank you.
19 I do not have a speech. I came down primarily to
20 listen for the next 30 minutes or an hour or so.
21 That's what I want to do. I am so privileged that
22 you are here at the FCC, and we are thrilled to

1 have Mark Lloyd helping us work our way through
2 all of this, and I'm so grateful for everybody on
3 this panel for being here and the previous panel
4 and the next panel, too, today.

5 This is really the hour. This is kind
6 of where the rubber really hits the road now.
7 We've got in this country an opportunity to do
8 some good things, whether it's building broadband
9 or creating equal opportunity, and not just
10 through broadband, but through a number of other
11 policies, whether it's building media democracy,
12 which is something I've been interested in for
13 years and years. There's a window of opportunity
14 that's open in this country now. How long it will
15 stay open and how wide it is open, nobody knows.
16 So, the premium is on action. So, I'm glad to see
17 this commission mobilize the way it has been
18 mobilized under the chairman, Chairman Janikowski,
19 to really get the data that we need not only to
20 inform our actions, but to sustain our actions
21 going forward and get that policy formulated for
22 broadband between now and next February.

1 There are other areas where I think we
2 already have a lot of data. We know a lot of
3 what's lacking in media diversity and in other
4 things where I think we need to act now. As I
5 say, we don't know how long that window will stay
6 open, and a year from now, everybody might be
7 circling the wagon saying whatever happened to
8 that wonderful opportunity that we had to build
9 broadband, create equal opportunity, create media
10 democracy, and all of the rest.

11 To me, access to modern
12 telecommunications is tantamount to a civil right,
13 is a civil right. You got to have it. If you
14 have no access to that, whether you're in the
15 inner city, the rural countryside, a tribal land,
16 a member of the disabilities communities, you are
17 hobbled. You are really hobbled in being a fully
18 participating member in American society going
19 forward.

20 This is the infrastructure challenge of
21 our era, getting this stuff out in the 21st
22 Century is certainly equally important and maybe

1 more important than it was in the early days to
2 build roads and bridges and harbors and canals and
3 railroads and highways and rural electricity and
4 then basic plain old telephone service. This is
5 the roads and the highways and the bridges and
6 canals and everything else in the 21st Century and
7 getting out to every American. That's going to be
8 the trick here. I have no doubt we're going to
9 succeed in getting it out even more than we have.
10 We get out more and better services to a lot of
11 the American people, but it's that final
12 hard-to-reach group where so many of our diversity
13 communities and others live that we really are
14 going to have to be creative and innovative. So,
15 I'm just thankful that all of you are here and
16 working hard. We're all working hard on it.

17 I'm going to be going with Commissioner
18 Clyburn down to South Carolina next week. We're
19 going to do some outreach down there and not only
20 talk about broadband deployment, but to try to get
21 the message on broadband adoption out so that
22 people can understand because not everybody does.

1 Tremendously impact who they are by this, and what
2 kind of windows of opportunity it opens for every
3 individual to be a productive member of society,
4 employed member of society, and a fulfilled member
5 of society, too.

6 So, this is a priority of mine, this
7 diversity realizing the next chapter in civil
8 rights through this technology really and
9 expanding opportunities.

10 So, I'm grateful, and, with that, I will
11 hush up and listen to you folks who know a lot
12 more about it.

13 Thank you.

14 MR. LLOYD: Thank you. Thank you, sir.
15 We really appreciate you coming in.

16 Just a couple of housekeeping notes.
17 Our Room Coordinator, Calvin Osborne, has asked me
18 to remind folks that we do have index cards in the
19 back, and, Calvin, if you could raise your hand
20 again so folks know if you need to ask questions,
21 please get those index cards and Calvin will be
22 sure to get those to me. We want to make sure

1 that the questions get on mike, and also we can
2 make sure that we're sort of staying on topic
3 here.

4 The other housekeeping note was I wanted
5 to make sure that folks who were interested
6 particularly in the last discussion about data,
7 that the organization, I think it's the
8 Greenlining Institute has got really very good set
9 of data about different uses of the Internet by
10 different ethnic populations, and if you go to the
11 Greenlining Institute Web Site, you'll be able to
12 get that data. Again, very interesting set of
13 statistics on broadband use.

14 The last panel, we talked about data,
15 what do we know, how do we get better data, what's
16 the better data that we have to get? As
17 Commissioner Copps, I think, properly said, this
18 is one of the tough panels. We could spend a week
19 on this question of what are the legal obligations
20 of the Federal Government in trying to address the
21 issues of civil rights and diversity in the United
22 States. With regard to broadband access and

1 adoption, we've only got a few minutes really.

2 And, so, I want to get right to that.

3 I also want to note that we will
4 continue a conversation. This is a listening
5 session. This is not the end of a conversation.
6 This is the beginning of a conversation, and we
7 encourage questions both from the audience and
8 online.

9 And I think, with that, let me introduce
10 my friend, Dr. Mary Frances Berry. Dr. Berry is
11 really one of the prominent legal scholars of our
12 time, both an historian and someone who
13 particularly is chair and member of the Civil
14 Rights Commission for many years, has worked very
15 closely on the question of what it is that the
16 Federal Government must do or is limited to do
17 regarding civil rights issues. And both in
18 collecting data and then driving the folks,
19 whether they were the president or whomever to
20 actually do something about that data.

21 And let me also say that we have very
22 full biographies of everyone both online and I

1 think there may be some biographies passed off.
2 So, I'm not doing any of the panelists justice
3 here with these brief introductions, but we do
4 want to get to the discussions as quickly as
5 possible.

6 Dr. Berry, with that.

7 DR. BERRY: Well, Mark, thank you very
8 much for having me, and I want to say to
9 Commissioner Copp how much I have appreciated his
10 leadership and commitment, which has been
11 sustained over the years on this subject as well
12 as others that are important to our country. Also
13 to say that since he said what he said, I don't
14 have to say that.

15 (Laughter)

16 DR. BERRY: As a matter of fact, I don't
17 even have to read the line where I talk about
18 enhanced broadband access in equity is one of the
19 major civil rights challenges of our time. So, I
20 don't have to read that.

21 And, also, I will say that the first
22 time I encountered this subject of communications

1 in any sustained way was when I was first
2 appointed to the Commission and it had just done a
3 study called "Window Dressing on the Set," which
4 was about the FCC, and in those days, the
5 Commission had to explain why communications was
6 so important. And, so, they spent a quarter of
7 the report explaining why it was important to
8 people to have access and to be recognized and
9 acknowledged and all the rest of it.

10 Well, we don't have to do that today
11 because we understand that, and we understand in
12 terms of the mission of the FCC, which is clearly
13 stated and what this broadband plan is about, how
14 important it is to include all the people who have
15 been left out.

16 And it's not just as I heard someone say
17 on the last panel because they use the Internet or
18 they use Skype or something to get in touch with
19 momma wherever momma or grandmamma lives. The
20 point is to do more than that. What you want
21 people to do is to utilize it for all of the
22 things that can be done so that they are

1 acknowledged that they have resources and that
2 they can be engaged, which is even more important
3 because if they are not connected, they can't be
4 engaged in all sorts of ways that are
5 informational and are educational and relate to
6 whether they, indeed, are going to be redundant in
7 a society where it is technologically advanced as
8 we move whether they are going to be able to
9 become productive members of society. So, it's in
10 the national interest, as well as in the
11 individual interest, that we do more than just
12 playing around with this thing.

13 Now, if we all agree with this, and I'm
14 sure we do, then all we have to talk about here is
15 what are the legal barriers? I want to talk about
16 the legal barriers and how you overcome them to
17 try and target on the groups that have been left
18 out, and to make sure that people are included.

19 The primary barrier, of course, is that
20 Metro Broadcasting 1990 decision is gone. We
21 don't have it anymore. So, therefore, we have
22 strict scrutiny, which anything that targets

1 people and race is the bugbear in the room
2 because, in fact, when you talk about disability
3 rights and gender and all the rest, you have a
4 lower standard that you have to worry about as you
5 develop these plans.

6 So, race is really the primary problem
7 here. And, so, we have strict scrutiny, and since
8 Adarand, what you got to do is make sure that you
9 prove that there is a compelling governmental
10 interest and make sure that you show that you
11 narrowly tailored whatever you do in this plan,
12 and that you tried every alternative possible and
13 that whatever you're doing is of short duration.

14 And, in addition, the FCC is hamstrung
15 by the Lutheran Broadcasting Case, Lutheran Church
16 Case of 1988, which you have, which throughout
17 your employment regulations, which I guess FCC
18 recognized it was a bad case based on how that
19 evolved over the years.

20 Sometimes, what lawyers have to do is
21 understand when to avoid litigation. You don't
22 litigate something that's going to set you up as a

1 target, and I have the hardest time in the world
2 explaining that to the lawyers I deal with in
3 various non-profits who like to go to court.
4 They're like surgeons who like to do surgery.

5 (Laughter)

6 DR. BERRY: But then we still have now
7 the Michigan Case, and we have O'Connor's opinion
8 there, and that can be used, and that was not
9 affected by the Seattle Case because there's
10 nothing in the Seattle Case that affects that or
11 the New Haven Firefighters Case. And the nice
12 part when you're dealing with this subject is that
13 we're not talking a zero sum game as we do with
14 schools. Schools, somebody gets in and then
15 somebody doesn't get in, and then they get mad and
16 they sue. We're not talking about jobs where
17 somebody gets promoted and somebody doesn't. What
18 we're talking about is figuring out where
19 everybody can have access.

20 So, what is it you do since I have two
21 minutes and eight seconds? What is it that you do
22 that I think will pass muster, given these

1 standards, and I think it's impossible to do it.

2 The earlier panel on data, data, of
3 course, is very important, but the first thing you
4 have to do is show in your plan why the country
5 needs technologically adept folks in the national
6 interest, and I mean in detail, I don't mean just
7 saying. You can't just say things, you have to
8 show, not tell. You have to show, not tell in
9 order to get over the barriers that the courts
10 have set up, and the courts are going to change,
11 but not this minute.

12 Overwhelming evidence of lack of
13 utilization has to be there. Overwhelming
14 evidence. I mean, you might think its' too much.
15 Overwhelming evidence, lack of access, and
16 overwhelming evidence of people not using it. You
17 have to show that with data, and you can get data
18 not just from NTIA and the work that they're
19 doing, but the agency can get data directly from
20 companies. That is the service providers. We did
21 that, and as a commission government agency is
22 going to do that. You get the data of who served

1 neighborhood by neighborhood who these people are
2 and use the data and set it up and show it in your
3 plan, and also show that you have accepted and
4 rejected various approaches to trying to meet your
5 overall goal.

6 You've got to show that in the plan. We
7 thought we'd tried this, but that doesn't work
8 because of that, and then we tried that. This is
9 required under the standards that are there. Then
10 you've got to show finally that you are going to
11 monitor whatever you do and that you're aware that
12 technological change is a moving target and that
13 you have to keep moving on it and you have to show
14 that, not tell that. And then you have to analyze
15 once you look at the plan that you develop, who is
16 likely to bring a legal attack and why would they
17 bring it, and what are they likely to argue, and
18 how do we repel them before we wait until they do
19 it? And if you do all of that, I believe you can
20 develop a plan that will ensure success and
21 meeting the needs of our people and exercising the
22 FCC's responsibility.

1 Thank you. I made it.

2 (Laughter)

3 MR. LLOYD: We're going to keep the
4 other panelists to that. Thank you very much for
5 that, Mary. It's really very helpful.

6 Geoff Blackwell, you've been working on
7 these issues for quite awhile, and I know you're
8 going to say this, the relationship between the
9 Federal Government and Native American Tribes is a
10 little different, it puts, I think, a different
11 twist on these set of issues.

12 What does the Federal Government need to
13 do regarding Native Americans?

14 MR. BLACKWELL: Thank you, Mark. Thank
15 you very much for the invitation to be here today
16 in one of my favorite rooms in this building.

17 And, to Commissioner Copps, once again,
18 I will tell you on behalf of Indian Country, if
19 you keep this up, we're going to have to build a
20 monument to you in Indian Country.

21 (Laughter)

22 MR. BLACKWELL: But I'll begin by saying

1 (speaking in Chickasha). Greetings on behalf of
2 Chickasaw Nation Industries, the National Congress
3 of American Indians, Native Public Media, which is
4 a project of the National Federation of Community
5 Broadcasters. I'm pleased to be able to join you
6 and share this time and share some views.

7 Answering Mark's question, in order for
8 the new National Broadband Plan to operate to
9 success in Indian Country, the legal barrier that
10 has to be overcome is really one of understanding
11 and action. It's going to require a new,
12 unprecedented level of government-to-government
13 coordination between the FCC and the other
14 agencies and American Indian and Alaska Native
15 federally-recognized tribal entities.

16 And the reason for this is pretty
17 simple. For the three sovereigns that are
18 recognized in the United States Constitution, one
19 of them was entirely left out of the
20 Communications Act of 1934 and the Telecom Act of
21 1996, and it has caused the myriad type of
22 challenges and conditions to which the

1 commissioner and Professor Berry alluded to, and
2 I'm not going to spend my time talking about all
3 of the incredible needs for broadband in Indian
4 Country, just suffice it to say we bury the needle
5 in the red; no pun intended.

6 And the Commission has very good tools
7 to be able to do this, a very good framework that
8 has developed over the last 10 years that it can
9 draw upon. There is very creative tribal policy
10 statement that envisions new types of removals to
11 barriers to entry. The Commission has created
12 very special, enhanced programs under the
13 Universal Service Fund, particularly the Enhanced
14 Tribal Lands Lifeline and Link-Up Program that
15 created significant rises in the telephone
16 penetration rate in Indian Country.
17 Unfortunately, that penetration rate is still just
18 below 70 percent, so, it's worth it to remember
19 that there are many places in tribal America where
20 we face an analog divide as well as a digital
21 divide.

22 There are other creative programs, such

1 as the Tribal Lands Bidding Credit. While having
2 not been as successful as we'd hoped over the last
3 10 years, it does create an interesting regulatory
4 question and opportunity for industry to work
5 directly with tribes. And that must be kept in
6 the front of our regulators' minds that, in Indian
7 Country, we're very focused on what will be good
8 both for our communities and for industries. Our
9 primary concern, of course, is growing stable,
10 reliable economies, and economies based on
11 knowledge.

12 As far as constitutional concerns, Mark
13 did not warn me that I would be seeing on a panel
14 with so many professors. I felt as though maybe I
15 should stand to answer or prepare for an
16 examination.

17 (Laughter)

18 MR. BLACKWELL: But he did give me a
19 good, leading question: The Adaran strict
20 scrutiny does not apply to tribes,
21 federally-recognized tribal entities, their
22 citizens, their institutions, and

1 instrumentalities because tribes are classified as
2 political, they're politically classified, not
3 racially classified.

4 Now, some tribal leaders would say that
5 only means that we suffer under a separate part of
6 the Constitution. But, therefore, a rational
7 basis review is what applies to Federal Government
8 action when taken with regard to
9 federally-recognized Indian tribes. And you have
10 examples of this throughout government. The
11 Bureau of Indian Affairs, the Indian Health
12 Service, the Administration for Native Americans.
13 Indeed, within this building, you have the
14 programs that I've previously mentioned, as well
15 as the work of the Consumer and Governmental
16 Affairs Bureau and the Office of Intergovernmental
17 Affairs, and the senior attorney and tribal
18 liaison.

19 It's worth it to say there are those who
20 doubt the veracity of this, much as Professor
21 Berry alluded, we must look to those who would
22 challenge this. And it's true, every day, tribal

1 jurisdiction, federal jurisdiction, state
2 jurisdiction is challenged in court. What is true
3 is that the bedrock cases for this stand for the
4 principle of tribes as governments, and we
5 certainly believe at the National Congress of
6 American Indians and at Chickasaw Nation
7 Industries that that is a concept that shall not
8 be shaken in the future again.

9 By way of background, to give you some
10 resources, these issues are laid out in the
11 recommendations that the FCC's Diversity Advisory
12 Committee recently adopted and promulgated to the
13 FCC. It's my honor to serve on the Constitutional
14 Subcommittee that Mr. Honig chairs, and he very
15 astutely worked with the subcommittee to also
16 address almost a subsidiary issue that may
17 implicate, that should implicate Adarand and the
18 review that Professor Berry mentioned.

19 There are those within the larger
20 minority community who, indeed, are racially
21 descended from tribes or Native Americans. It's
22 an unfortunate fact of history that it's not

1 always been fashionable to be American Indian,
2 and, in some ways over time, they have lost their
3 connection to their tribes and do not have the
4 opportunity to become citizens of
5 federally-recognized tribes.

6 Nevertheless, they suffer under what I
7 think this room regards as traditional civil
8 rights and social justice issues, and would,
9 therefore, the Adarand (inaudible) review would
10 apply, and the Diversity Advisory Committee made a
11 recommendation regarding that when it said,
12 nevertheless, if there are Native Americans who
13 pursue full file review before the commission,
14 that the commission allow that opportunity.

15 So, that being said, and counting down
16 on my time, I want to give you the impression that
17 it is very, very important for the Federal
18 Government to work directly with our elected
19 tribal leaders. They are the ones that know the
20 ground the best. They are the ones that have been
21 elected by their peoples to represent them. It is
22 our job as institutions and experts and to

1 (inaudible) to train them to be able to talk to
2 you to inform them just as much as we inform the
3 Federal Government.

4 And I look forward to questions, and I
5 will throw it back to you, Mark, in terms of
6 potential questions involving -- for Indian
7 Country, we like to say, and it's going to
8 challenge the FCC, one size fits none.

9 So, with that, thank you for my time.

10 MR. LLOYD: Wow. Thank you, Geoff. I
11 love saying Dr. Einstein. And that's not really
12 the reason that you're on this panel. You have,
13 Dr. Mara Einstein, one of the other disadvantages
14 of being one of the few folks, even though you are
15 a professor, you're really not a lawyer.

16 DR. EINSTEIN: No. And I don't play one
17 on TV either.

18 MR. LLOYD: And you don't play -- but
19 you do have significant experience in the
20 industry.

21 DR. EINSTEIN: Okay.

22 MR. LLOYD: And you've also written, I

1 think, some really important work questioning the
2 FCC's definition and use of the term "diversity,"
3 and are now doing some really interesting work on
4 religious institutions in the United States. And,
5 so, I really wanted to ask you to sort of speak to
6 some of those issues here. So, with that.

7 DR. EINSTEIN: My pleasure. Thank you.
8 I want to thank Mark for asking me to be here and
9 also for Commissioner Copps for coming.

10 Since I was given seven minutes, I'm
11 going to read my notes because, as a professor, I
12 tend to go into wild fancies and discussion, so, I
13 want to stick to topic.

14 Based on what Mark sent me, I want to
15 address two questions as it relates to content
16 diversity. Should the FCC allow market forces to
17 be the sole determinant of broadband access and
18 adoption? And should the FCC fund specific
19 applications such as education, health care, or
20 should particular groups be taken into account
21 when making policy decisions?

22 As some of you may know, in 2003, I

1 conducted quantitative research on the impact of
2 media consultation on content diversity. My
3 finding suggested that consolidation did not
4 significantly affect diversity in entertainment
5 programming. This surprising finding forced me to
6 ask a new research question: If consolidation
7 isn't restricting diversity, then what was?

8 The answer lies in the underlying
9 economic structure of the industry, specifically
10 media outlets old and new are reliant on
11 advertising as their primary source of revenue.

12 Advertising and marketing raise two,
13 important issues. First, the price of advertising
14 is dependent on the size of the audience, so,
15 content is driven by what appeals to the largest
16 number of people. In line with an
17 advertising-based revenue structure and true to
18 basic economic theory, programmers create similar
19 content because it's the most effective means of
20 creating the largest possible audience.

21 Second, in today's cluttered and
22 fragmented media environment, it's difficult to

1 create awareness of media content. Thus, its
2 companies with the capital to invest in marketing
3 or the ones with the most media outlets through
4 which to promote themselves.

5 So, for example, USA promotes NBC, which
6 promotes Hulu, which may soon be promoting
7 Comcast, right? That are going to be able to get
8 the audiences' attention. Given this, large media
9 companies are best positioned to be successful in
10 this marketplace. Even in the digital space, the
11 existing advertiser-based economic model
12 predominates from Google to blip.tv, to millions
13 of personal and corporate blogs, advertising is
14 the fuel that runs the media engine. When it
15 comes to revenue generation, new media looks
16 exactly like old media, and this economic model is
17 anathema to content diversity.

18 Let me give you a recent example of how
19 dependence on advertising affects consent. After
20 the success of YouTube, numerous video Web Sites
21 popped up that appealed to specific demographic or
22 interest groups, including TeacherTube to -- and

1 I'm sure you're not surprised, PornTube and
2 SexTube.

3 The most successful of these, however,
4 was GodTube, started by evangelical Christians,
5 the site was made up of clips from local churches,
6 Christian music videos, home videos of kids
7 quoting from the Bible, and so on.

8 While the content was primarily
9 Christian, the site did include videos for
10 multiple religious groups. There were reports
11 about censorship on the site, but we'll leave that
12 aside for now.

13 As the site developed, the founders
14 added a social media element to the site, ala
15 Facebook, which provided social networking tools
16 to congregations around the country. This is
17 important because many churches might not feel
18 comfortable on a Facebook or a MySpace, but within
19 the confines of GodTube, they would be surrounded
20 by family-friendly content.

21 All of this changed last year, however,
22 when a venture capital firm invested \$50 million

1 in GodTube. Almost immediately, the site was
2 completely revamped. Gone are the churches, gone
3 is the commercial-free environment, gone is the
4 multiplicity of religious viewpoints. Instead,
5 personal videos have been replaced by a
6 significant number of commercially-produced
7 videos.

8 Advertising pervades the site through
9 pre-roll or by appearing in the bottom-third of
10 videos, and instead of hundreds of small churches,
11 the social networking area contains exactly 22
12 sites, several of whom are connected to larger
13 media entities. This is a perfect example of why
14 the market can't or rather won't sell the problem
15 of the digital divide as it relates to content.

16 Since the market is not the answer, how
17 should the FCC promote access and diversity?

18 Before I answer that question, I need to
19 interject that today's problems are not the ones
20 we faced six years ago. In the television
21 marketplace, for instance, the issue was one of
22 access. What we learned back then was that

1 structural regulation is ineffective in creating
2 content diversity. If you want content diversity,
3 you need to regulate content. I know that's
4 controversial (inaudible) lawyers.

5 The issue, however, is less one of
6 access than awareness. It's relatively
7 inexpensive to create a Web Site. It is
8 expensive, however, to let people know it exists.
9 I would add it is also expensive to have broadband
10 Internet access and to maintain a staff that can
11 provide continually-updated content.

12 The government can fund and promote
13 categories of content without specifying what
14 exactly the content should be. This has been done
15 in the past, and I'm thinking here of the
16 Children's Television Act, and it would not
17 infringe on the Constitution.

18 Priority should be given to community
19 news sites, unbiased health care information, job
20 assistance, education, and perhaps even a
21 government-sponsored GodTube, where all faiths are
22 welcome.

1 While this would not specifically name
2 minor or ethnic groups as recipients of funding,
3 it would not preclude them either.

4 For example, sites addressing specific
5 health care issues, such as obesity, which is
6 highly correlated with certain minorities and
7 economic status should be funded. I would also
8 stress that they would not be government-run
9 sites. All right. The government is not taking
10 over the Web Sites, too, and, with all due
11 respect, the FCC and the HHS sites are anything
12 but user-friendly. And you've been there,
13 obviously.

14 Finally, while I agree with using anchor
15 institutions for content creation and information
16 dissemination, because of my more recent research
17 in media and religion, I do not recommend funding
18 through religious institutions.

19 First, it is difficult for evangelical
20 organizations to separate proselytizing from their
21 secularly-funded programs. This is particularly
22 notable in 34 percent, fully one-third of the

1 population identifies as born again, and their
2 churches reflect this belief system.

3 Second, mega church congregations, those
4 catering to 2,000 congregants or more, are one of
5 the fastest-growing segments of churchgoers, and
6 these institutions are already extremely
7 Internet-savvy. They're also usually upper middle
8 class and have a tremendous amount of funding
9 internally.

10 I would add that an increasing number of
11 synagogues have also effectively used the Internet
12 for everything from presenting live services to
13 assisting with distance learning for bar and bat
14 mitzvah.

15 Third, while the prevailing gallop
16 research has claimed traditionally and for a very
17 long time that 40 percent of Americans attend
18 church on a weekly basis, new research puts that
19 figure at a more realistic 20 percent, suggesting
20 that people might be better reached through other
21 institutions.

22 In sum, the FCC, in revising its

1 broadband policy, it must also take into
2 consideration what is being conveyed through the
3 Internet and who and who is not being served by
4 that content.

5 Thank you.

6 MR. LLOYD: Wow. Lots of, I hope,
7 provocative things for the panel to consider in
8 looking forward to the conversation moving
9 forward.

10 Professor Hammond, I've been working
11 with Al for a number of years as a colleague, and
12 I think one of the few panelists today who
13 actually has a PowerPoint slide. So, one more
14 professor and a lawyer.

15 So, Al Hammond, please.

16 MR. HAMMOND: Good morning. Thank you,
17 Mark, for inviting me to be here today and thank
18 you, Commissioner for all your work. I've cited
19 it many times.

20 The FCC has a number of enumerated tasks
21 which Mark enumerated in his letter to us. It's
22 to provide a roadmap towards achieving this goal

1 of ensuring all Americans reap the benefits of
2 broadband, and I won't go through all these things
3 that it's supposed to identify, but the question I
4 was asked to address is: What does the law compel
5 or limit regarding government action to close gaps
6 in broadband access and adoption? And Professor
7 Berry has spoken on the diversity issue, so, I
8 will limit my remarks to what is the FCC supposed
9 to do?

10 So, I'll talk briefly about mandates,
11 very, very briefly about some obstacles, and then
12 possible restraints. As I said before, leaving
13 out the constitutional piece and focusing more on
14 the regulatory piece.

15 So, the mandate. Well, there are
16 several places you can go. First of all, to the
17 preamble, to make available to all people of the
18 United States without discrimination on the basis
19 of race, color, religion, national origin, or sex,
20 a rapid, efficient, nationwide communication
21 service. And that was the Communications Act of
22 1934, as amended by the Telecom Act of 1996.

1 Going on, the FCC is also supposed to
2 encourage the deployment on a reasonable and
3 timely basis of advanced Telecom, and that's 706
4 in the Telecom Act of 1996.

5 Including in the 706 mandate is that the
6 FCC should initiate periodic notices of inquiry
7 concerning the availability of broadband,
8 determine whether deployment is reasonable and
9 timely, and, if not, take immediate action to
10 accelerate deployment by removing barriers to
11 investment and promoting competition.

12 So, under the ARRA, the FCC is also
13 supposed to develop a national broadband plan,
14 again, to ensure that all people of the United
15 States have access to broadband. And the FCC also
16 has a requirement to conduct a triennial review
17 and to report to Congress on efforts to identify
18 and eliminate regulatory barriers to market entry
19 in the provision, and the ownership of
20 telecommunication services and information
21 services by entrepreneurs and small businesses,
22 and to identify proposals to eliminate statutory

1 barriers, as well.

2 So, if you put that all together, the
3 Commission is required to facilitate inclusive,
4 non-discriminatory, affordable access to broadband
5 in a reasonable and timely manner, and if we're
6 not reasonable and timely, take immediate action
7 to accelerate deployment by removing barriers to
8 investment and promoting competition.

9 I don't think we've ever put all that
10 together before. I certainly haven't seen it
11 anywhere.

12 So, that also includes the
13 identification and elimination of regulatory and
14 statutory barriers to market entry by
15 entrepreneurs and small businesses.

16 So, it seems to me that there's a
17 mandate that's quite expansive to make sure that
18 all Americans have access and to do so, in part,
19 by encouraging small businesses, minority
20 businesses to enter the market to enhance and
21 create the competition which may not be in
22 existence in certainly communities which are now

1 presently un-served and underserved.

2 So, there are a number of obstacles to
3 access, and the panel previous to ours has talked
4 about that in some detail, and we can talk about
5 substantial disparities in Internet use in terms
6 of adults with household incomes of less than
7 \$40,000 compared to those with more than \$40,000
8 on average. Forty-nine percent versus ninety-two.
9 The disparities between African-Americans and the
10 national average, the low-income minorities, as
11 well, versus non-minorities without regard to
12 income.

13 And we can also talk about the absence
14 of relevant content, which in the Pew Forum Study
15 most recently, 50 percent of individuals without
16 broadband access reported that it wasn't anything
17 relevant to them, and that was why they were, in
18 part, reluctant to engage in it, and, yet, you
19 have several organizations, the National Urban
20 League, the National Council of La Raza, and One
21 Economy, pointing out that there is relevant
22 content that needs to be provided and that needs

1 to be created specifically that is engaging in a
2 formative, and that facilitates people increasing
3 their access to the Net.

4 That would be public purpose media, I
5 guess would be the way to call it, and that
6 tailors content to the cultural, financial,
7 geographic, and professional needs of individual
8 communities that these media companies would seek
9 to serve.

10 Now, in the past, that type of service
11 has been provided by community-based
12 organizations, wireless ISPs, small ones, and
13 (inaudible) and also government-initiated
14 broadband networks, which have targeted
15 communities of color and communities of low income
16 as likely markets for the provision of services,
17 and they have demonstrated that there are
18 responsive strategies that may be employed in
19 those areas.

20 But there are possible constraints, and
21 I think one of the things that both the research
22 that I've done in terms of the impact of multiple

1 ownership rules, FCC's multiple ownership rules on
2 minority broadcasting, and I'm sure that Cathy has
3 been involved in, as well, is that the Commission
4 tends to silo its decision-making, and, so, while,
5 on the one hand, it says we have to encourage
6 minority ownership, we have to encourage
7 gender-based ownership, even with the
8 constitutional limits, they also say well, we're
9 going to increase the multiple ownership limits,
10 and they don't compare the impact or anticipate
11 the impact of the change and the limits on the
12 small businesses that are also operating on the
13 space.

14 Some of the things that we need to be
15 considering when we talk about the regulatory
16 environment having an impact on these policies
17 would be the following: Universal service,
18 because you're going to need funding to pass the
19 ARRA. If you have \$7 billion provided by the
20 ARRA, but you look at the \$28 billion in demand
21 that came in with the applications, then you
22 compare that with the \$30 billion that I think

1 AT&T is spending on its network. There's just not
2 enough money there.

3 So, where's that money going to come
4 from in the future? It's going to come from the
5 Universal Service Fund, more than likely. That's
6 going to be an area.

7 You can see from the list, there are a
8 number of other things, Rural ETC Policies,
9 whether or not we continue to encourage
10 government-led broadband initiatives, Net
11 neutrality, network interconnection, reciprocal
12 compensation, and, also, whether or not we
13 reinstitute some sort of a resale and cost of
14 network elements policy that would allow these
15 small companies to actually compete.

16 I'm running out of time here. As I said
17 before, Mary talked about this. I'll leave the
18 constitutional environment and diversity out. But
19 I just want to encourage the FCC when it thinks
20 about diversity, when it thinks about encouraging
21 competition from these small companies, that it
22 understands that there's a much larger environment

1 that we're working with, and you can't implement
2 that policy without taking into account what
3 you're doing in the rest of the regulatory space.

4 Thank you.

5 MR. LLOYD: Great. Thank you, Allen.
6 It's really very useful.

7 Thomas Henderson, although you have
8 taught in the past, you are a working lawyer, and
9 you represent real clients in courts and get paid
10 to do that. I mean, you're a real lawyer.

11 (Laughter)

12 MR. LLOYD: Not like some of us aren't.
13 So, we're really looking to your take on this
14 about what we can do and what some of the
15 limitations are. Not that you're not a real
16 lawyer, Mary.

17 SPEAKER: (Off mike)

18 (Laughter)

19 MR. HENDERSON: Well, I will say that I
20 am just a civil rights lawyer when you get down to
21 it. And I say that in particular because I don't
22 have anywhere near the background all of you do in

1 this subject matter and the terminology and so
2 forth. I struggled to learn various areas that I
3 deal in, and I have a little familiarity with the
4 FCC, but I don't pretend to really have a good
5 grasp on the content and the possibilities of the
6 discussion about broadband and so forth.

7 I want to, again, thank you for the
8 opportunity to speak today, and I want to thank
9 the Commissioner for his comments and say that,
10 from what I have begun to understand about the
11 enterprise that the FCC is engaged in, I agree, it
12 is a time of historic opportunities. And it is
13 the moment to act, and acting now can, I think,
14 have a vast affect on society and reaching into
15 the future.

16 It's terrific that you're having this
17 session today. I would also suggest that it is
18 imperative, and I know you know this, but it's
19 imperative to follow-up on this and do the
20 details.

21 Doing work designed to promote or
22 facilitate the evolvement of everyone in

1 government resources and opportunities is not
2 easy; it's hard work. The Supreme Court has made
3 sure that it is hard work, but it's work that can
4 be done, and I hope to share at least a few ideas
5 today on the kinds of things that can be done, but
6 it has to be done and done well, and, to be
7 candid, I think it's very important that the FCC
8 do it particularly well because, in the past, in
9 my view at least, the FCC has not always done it
10 well, and that its paid the price in the courts
11 and in some perceptions by the courts.

12 So, I think it's particularly important
13 that the FCC lay a firm foundation and do the work
14 necessary to design a program that effectively is
15 going to reach and provide opportunities and
16 access for everyone.

17 You understand, of course, this is an
18 impossible task, not even seven minutes, but a
19 couple of days, it's a bit of an impossible task
20 to try to talk about what is permissible and what
21 isn't and whether the kinds of things you need to
22 look at. I hope only to touch on a few points, I

1 think, of interest that show the opportunities
2 that I think the FCC has in developing policies
3 and the basis on which to move forward.

4 The scope, I'm not even sure what the
5 scope is, but it seems to me that the scope of
6 what we're talking about today is, on the one
7 hand, making services available to people, making
8 information available to people, giving access to
9 people, and to the extent the FCC controls or
10 regulates that, there are lots of opportunities to
11 make sure that things are done in a way that reach
12 everyone.

13 But, as well, it seems to me that we're
14 also talking about making sure that there are
15 opportunities available in the industry, in the
16 work of the FCC, and in the industry that's
17 working in the whole broadband area, including,
18 for example, employment opportunities there,
19 contracting and subcontracting opportunities
20 there, and ownership, as I think Allen was
21 alluding to. The ownership opportunities, the
22 opportunity to participate in this marketplace.

1 So, understanding that enormously broad
2 scope, let me say a couple of things.

3 One, it is clear even after the
4 decisions, the most recent and interpreted as
5 hostile decisions about what I'm going to refer to
6 as affirmative action, the Hartford Case, even
7 there, it's acknowledged that race-neutral efforts
8 or -- and I'm going to use race because, as Mary
9 said, race is the hardest one, the strictest
10 standards, so, if you can take care of race, you
11 can take care of anything else.

12 But even after Hartford, it's clear that
13 you can act with an awareness of race to plan
14 things, to accommodate to take into account, to

15 allow the greatest participation of race so long
16 as you're not classifying people or treating
17 people differently.

18 So, you can use geography, you can use
19 demographics, you can use specialized programs,
20 you can use outreach and so forth in ways that are
21 designed for inclusion without running afoul the
22 Constitution.

1 And although race in the world I work
2 in, race-neutral remedies are sometimes disparaged
3 and seen as not effective, there are lots of
4 reasons to consider them thoroughly.

5 One, you can get a lot done through
6 race-neutral means that you don't have to employ
7 race-conscious ones. Secondly, they can be really
8 useful in identifying where the real barriers are.
9 Where are the real problems? Where are the real
10 barriers to access? Because if you do
11 race-neutral things and you're still not getting
12 there, you're going to be able to identify the
13 problems that really need work to be solved. And
14 the third thing is employing them and using them
15 provides a very good basis for race-conscious
16 actions if you need to take them.

17 With regard to employment, there are
18 already means available. The Executive Order
19 11246 requires and federal contractor not to
20 discriminate and that has given a fulsome
21 interpretation by the OFCCP that requires analyses
22 of the workforce to see whether the workforce of

1 any contractor matches the available labor market,
2 and, if not, provides for goals and timetables to
3 get there.

4 So, those kinds of measures are
5 available already and important.

6 With respect to contracting -- well, and
7 let me say I think there's undiscovered
8 possibilities in considering Title VI of the Civil
9 Rights Act, which provides that recipients of
10 federal financial assistance are prohibited from
11 discriminating and the Supreme Court has held that
12 that can include an effects test, that is having a
13 discriminatory effect. Government agencies can
14 require by regulation that people not take actions
15 that have discriminatory effect. It seems to me
16 that provides lots of possibilities for the
17 Commission in terms of pursuing policies that
18 would include everyone and not exclude folks.

19 I don't have time to go into the more
20 difficult and rigorous requirements. If you want
21 to take race-conscious action, I would, I think,
22 simply suggest that one place to look is the

1 Department of Transportation. The Department of
2 Transportation, after Adarand came, Adarand was a
3 Department of Transportation case. After that
4 case came down during the Clinton Administration,
5 the Department of Transportation undertook a
6 thorough review of that program, redesigned
7 regulations. It's the Disadvantaged Business
8 Enterprise Program. The new regulations were
9 adopted, and that program so far has been upheld
10 in the federal courts as being constitutional.
11 So, it's one place to go and take a look.

12 MR. LLOYD: Very, very helpful. Thank
13 you, Thomas. David Honig chairs the
14 Constitutional Committee of the Diversity Advisory
15 Committee. That's sort of the short name for the
16 Diversity Advisory Committee, and David was one of
17 the forces behind creating these panels, and I
18 asked David to sort of bat cleanup here and sort
19 of pay close attention to what folks were saying
20 and see if we could sort of cover some more ground
21 and figure out where the holes were.

22 So, with that, David Honig, executive

1 director of the Minority Media telecommunications
2 Council.

3 MR. HONIG: There were no holes.

4 (Laughter)

5 MR. LLOYD: I don't believe that.

6 MR. HONIG: What we've heard is some
7 remarkably brilliant and astute observations about
8 the nexus between traditional civil rights and
9 access to modern communications, as Commission
10 Copps expressed it, and some elements of that that
11 Professor Berry and Professor Hammond expressed.

12 The subset of all of that that the FCC's
13 Advisory Committee and Diversity addressed and
14 voted on unanimously in two recommendations is
15 what I wanted to speak to today, which is this
16 question that Tom Henderson teed up about the

17 opportunity of entrepreneurs to have an ownership
18 stake where they can monetize their creative and
19 entrepreneurial and managerial talents fully,
20 where everyone can do that. And the Diversity
21 Committee looked at really two questions.

22 First, in light of Adarand, which has

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1 been discussed earlier, what should the Commission
2 do to develop within the constraint of strict
3 scrutiny sound policy, which may or may not wind
4 up being race-conscious, to address in this case
5 disparities in ownership?

6 What the committee recommended requires
7 a little bit of history. This question was first
8 teed up in 1995, after Adarand. By then, General
9 Counsel Bill Kennard subsequently the chairman.
10 There were six studies that the Commission had
11 undertaken which were released in December of
12 2000, which covered the waterfront studies
13 normally would in this area trying to develop
14 history and the economics and what were the
15 disparities in order to justify potentially
16 race-conscious initiatives.

17 Then, after that, for the last several
18 years, not much happened. The studies did not get
19 translated into policy. There was an updating of
20 the record in 2004 and again in 2007, but,
21 meantime, these studies were quite valid, have sat
22 on the shelf. The data underlying them is often

1 data from the late 90s, and leaving aside whether
2 or not a court would regard data that's stale as
3 not useful. Certainly, the industries have
4 evolved and a whole new industry has been created
5 largely since then. So, it would just be good
6 policy to develop new studies.

7 The Committee recommended that seven
8 such studies be done, updating first six of them
9 to update the previous ones, and one new one on
10 broadband services and access to capital and
11 market entry barriers in broadband.

12 The Committee also took up the question
13 of what would be a less-dilute definition of
14 eligible entities which now is the definition of
15 small businesses. In terms of impact on
16 minorities and women that would still be race and
17 gender-neutral. And whether that's used instead
18 of or until these Adarand studies conclude that it
19 might be necessary, and maybe it isn't, but it
20 might be necessary to use race-conscious means.

21 What would that look like? Well, it's
22 really a paradigm that was borrowed from state

1 university systems where the voters in the states
2 had voted not to permit the use of state funds for
3 race-conscious remedies. And this is a paradigm
4 locally known as Full File Review or FFR.

5 In the context when we translated that
6 paradigm into the FCC's world, it is basically
7 that in designing a definition for how is an
8 eligible entity either in the waiver context or in
9 the comparative, non-zero sum context. An entity
10 might be considered eligible for relief if it has
11 overcome a disadvantage. The overcoming of which
12 is predictive of entrepreneurial success.
13 Certainly, there is a long history, particularly
14 with broadcast comparative hearings and auctions
15 of the Commission having comparative processes
16 which lead to the selection of a winner who then
17 does not perform, leaving the losers to say well,
18 we put in all this work, why didn't they pick us?
19 And then the Commission has spent all the time,
20 meantime, the public isn't getting service.

21 So, the idea would be to look at what is
22 predictive of entrepreneurial success? The social

1 disadvantages that could be overcome could be,
2 among many others, disadvantages that derive from
3 having experienced racial discrimination or gender
4 discrimination or the various disabilities that,
5 unfortunately, attend veterans' status or living
6 in certain geographic areas or certain kinds of
7 disabilities and others. And this is two degrees
8 of separation removed from race. There would be
9 no advantage because of race, there would not even
10 be an advantage because of having experienced
11 racial discrimination, rather the advantage comes
12 from the success due to the person's (inaudible)
13 in overcoming those or any other disadvantages.

14 So, that is pretty clear race-neutral,
15 yet, we believe that it would be properly focused
16 on these industries and that it would survive any
17 review that looks at whether it's race-conscious
18 or race-neutral.

19 Now, several recommendations were made
20 by the Diversity Committee as how this would be
21 implemented. In particular, the committee
22 recommended that an FFR, Full File Review Program

1 would strive to achieve these goals, that it would
2 have a meaningful impact on ownership diversity,
3 it would use inexpensive, user-friendly
4 procedures, it would be expeditious in terms of
5 application processing and review, clarity and
6 consistency of decision-making, and a minimal need
7 for the commissioner's own involvement in
8 overseeing the day-to-day operations of the
9 programs through which it's applied, and, of
10 course, most important, that to the extent
11 possible, any inherent subjectivity that comes
12 from evaluating applications in this way be
13 reduced.

14 In the interest of time, I'll leave for
15 questions on how this would work in practice, how
16 the disadvantages would be identified, how a
17 certification could be used as a coin by companies
18 to raise investments and to secure capital, and
19 how the rights of entities that might not be
20 regarded as having been eligible entities can be
21 adequately protected under the standards that
22 courts apply.

1 MR. LLOYD: Thank you, David. That's an
2 awful lot. So, we've covered, I think, a great
3 deal of ground here. Maureen, did you have some
4 questions or some --

5 MS. LEWIS: Well, yes. Thank you, Mark,
6 and I wanted to sort of tie back an issue that we
7 identified in the first panel about the lack of
8 data and issues related to the data that we do
9 have about relevance and people identifying lack
10 of relevant content or relevance of broadband
11 technology to their lives as a reason for they're
12 not adopting it. And tying that thought into
13 Commissioner Copp's comments and some of his other
14 statements and others on the panel, including
15 David and others, about broadband access as a
16 civil right. And I'm wondering about whether or
17 not in the language that we use as we characterize
18 and define the problem, that as we talk to
19 underserved communities whether or not we help
20 them to consider adopting this very important
21 technology by talking about broadband access as a
22 civil right and whether or not you think there may

1 be a way to help bring heightened awareness.

2 MR. LLOYD: Please, go ahead.

3 DR. EINSTEIN: Well, I was just going to
4 say because I was sitting here thinking about
5 that, when someone, I forgot who, which one of the
6 panelists mentioned the question of relevance.
7 Who is it? Who said that? That's when you wrote
8 it down.

9 MR. LLOYD: Allen. I might be Allen.

10 DR. EINSTEIN: But, in any case, one of
11 the reasons why some people don't see the
12 relevance of it is because what's already there,
13 is because they don't understand how that relates
14 to anything. I mean, part of it is it is a civil
15 right in the sense if you explain to them that if
16 they want access to jobs, opportunities, health
17 care, if they want to get rid of disparities, if
18 they want to improve the quality of their lives,
19 overcome discrimination, have mobility, all the
20 rest of those things, all the goods that society
21 has to offer, that one thing you need to do to
22 access those is to be able to use this. And if

1 you explain that to them, your civil rights will
2 not be fully realized unless you are able to do
3 this, then you educate them to do it. You don't
4 just say well, what did you see on there that were
5 interested in? And then you say well, let's put
6 some content on there that's directed. That's
7 fine; I'm all for putting content that's targeted
8 at them, specifically directly to people, but
9 there's a lot of stuff that's on the Internet, and
10 there will be more that is useful for people, and
11 they need to have it, and they need to have it
12 right now.

13 MR. HAMMOND: In previous incarnations,
14 I had to talk to people about the relevance of
15 telecommunications to their lives, and the way I
16 did it was by asking some simple questions like
17 how many of you have a bank branch in your
18 community? No one raised their hand. Well, how
19 many of you have an ATM six blocks from your
20 house? No one raised their hand. Well, how many
21 of you have a hospital that is within 6 blocks or
22 10 blocks of your house? And no one raised their

1 hand.

2 Well, it becomes pretty obvious when you
3 don't have those things available to you and you
4 start thinking about how hospitals have closed
5 branches because of expense, banks have closed
6 branches because of expense, and a move to having
7 services provided online, that if that's the only
8 way for you to get those services, not being
9 online becomes a substantial problem. And I think
10 if you start talking to people about what they
11 have available to them in their daily experience
12 before you relate the relevance of broadband to
13 them, they get it immediately. And I was talking
14 to a bunch of college students in Brooklyn.

15 MR. BLACKWELL: I would add, Professor
16 Berry, in addition to all the uses that you spoke
17 about, the very basic ability to participate,
18 civic participation in the democratic process. I
19 mean, our most recent election for president, one
20 only needs to look at what happened in that
21 election and how those campaigns were run to see
22 the importance, relevance of the Internet.

1 In Indian Country, there's a very
2 interesting study that was cited often in the
3 early parts of this decade addressing this very
4 concern for tribes, the concern, if I may
5 re-characterize it a little bit, the concern about
6 the very steep, but short, learning curves about
7 the value of broadband and the Internet. There
8 was study that was done by EDA that asked 50
9 elected tribal leaders to prioritize their
10 governmental needs, and telecommunications ranked
11 14th on the list below things like education and
12 law enforcement, public safety, health services.
13 So, there is an ever increasing need to continue
14 to educate, reeducate.

15 Maureen, also, I appreciate you asking
16 this question because there is an institution that
17 was mentioned in the earlier panel that I work
18 with, Native Public Media. I serve on the tribal
19 advisory committee to Native Public Media, and
20 there are several of us in Indian Country that are
21 looking forward to a report that they're going to
22 be coming out with in November that I would submit

1 request that the FCC take a good look at. It's
2 called the Blueprint Project, and it is a holistic
3 look and review at how communications and media
4 technologies are used in Indian Country, and
5 you've heard about the terrible anecdotal 5 to 8
6 percent broadband penetration rate in Indian
7 Country. As we learn more how to use it, we will
8 continue to push for more deployment of services.

9 DR. EINSTEIN: I don't know whether Mr.
10 Honig was talking about the post-Adaran studies
11 that were done, whether you were just talking
12 about the one at the FCC. I couldn't tell. You
13 were --

14 MR. LLOYD: Yes.

15 DR. EINSTEIN: But what I wanted to
16 point out, I was thinking about it because I was
17 involved with that process. It was when Clinton
18 did his mend it, don't end it thing. All of the
19 federal agencies did these studies, so, if you've
20 not looked at them, instead of reinventing the
21 wheel, you might look to see what they came up
22 with, and they all implemented something for

1 awhile until the politics changed, and see if
2 there's anything that's useful in that because
3 there was a lot of time and energy put into those
4 studies.

5 MR. LLOYD: Dr. Einstein, you had
6 suggested that the Children's Television Act might
7 be a model to look at to spur the development of
8 content that might promote adoption.

9 Any comment from the panelists? Do you
10 want to expand on that or is there any comment
11 from the panelists about that idea?

12 Al?

13 MS. LEWIS: Well, certainly
14 organizations like One Economy have been very
15 successful in expanding adoption or encouraging
16 adoption by providing content that is relevant to
17 the people that they're serving in housing units,
18 whether it be about jobs or about health or about
19 schools. It's not a surprise and it's not rocket
20 science that a community would do something that
21 would help them find out information about
22 something that they're concerned about or need.

1 So, I think it might be valuable to
2 examine those already existing laboratories where
3 these things are actually going on and being
4 successful.

5 When Dr. Einstein mentioned about
6 content, she said as sort of an aside, I guess,
7 that you lawyers will be objecting to that.

8 DR. EINSTEIN: Yes.

9 DR. BERRY: Something she said about
10 content, and then, of course, nobody objected when
11 she finished. So, she seems to think that people
12 would object to it. I guess she thought there'd
13 be some First Amendment concern, but we've gone a
14 little bit beyond that.

15 And you made that point, and I wanted to
16 see what you meant by it, and, also, you made one
17 other one. While I have the floor you could tell
18 me. You said in passing something about evidence,
19 that you shouldn't use religious institutions.

20 DR. EINSTEIN: Yes.

21 DR. BERRY: And, in part, because they
22 had difficulty separating proselytizing from the

1 services.

2 DR. EINSTEIN: Yes.

3 DR. BERRY: You said something about
4 proselytizing, and I know that in the whole
5 think-based arena of programs, one of the issues
6 that I've been considering in another connection
7 is whether, indeed, it is true that you can
8 separate the two. So, I just wondered if these
9 were just asides or if you had some substantive
10 study or something.

11 DR. EINSTEIN: Yes.

12 DR. BERRY: Or points that you were
13 making.

14 DR. EINSTEIN: In terms of providing
15 funding to religious organizations as a means of
16 creating content, I have concerns about religious
17 institutions, and actually in my last book, there
18 is some information about the inability
19 particularly of some of the faith-based
20 institutions not separating their proselytizing
21 from the funding that they did, the funding that
22 they got.

1 So, if they were doing church programs,
2 and I can give you some citations if you want,
3 certain church programs or prison programs, if you
4 were given information about how to transition
5 into out of prison, you were also taught about
6 Jesus and receiving a personal -- and it was
7 supposed to be the sort of thing where, perhaps,
8 there was some kind of a 12-step program or a drug
9 program that the drug program would be on one part
10 of the church and then if anything else would
11 happen, proselytizing would happen somewhere else,
12 but always what seemed to happen is that as soon
13 as someone stepped out of the drug program,
14 everybody stepped outside for a cigarette, and
15 then --

16 DR. BERRY: Oh.

17 DR. EINSTEIN: You get the
18 proselytizing. So, it's a very difficult to
19 separate those two things, and if we get into an
20 issue in terms of separation of church and state,
21 that's what my concern is.

22 DR. BERRY: Then on the content point,

1 what was --

2 DR. EINSTEIN: The content point, in
3 terms of religion?

4 DR. BERRY: (Off mike.)

5 DR. EINSTEIN: I don't have a problem --

6 DR. BERRY: No, no, when you said
7 something about lawyers were going to.

8 DR. EINSTEIN: Oh, lawyers. I thought I
9 was going to get an objection from lawyers in
10 terms of the First Amendment as it relates to
11 saying that we need to regulate content. And
12 you're suggesting that lawyers have moved past
13 that?

14 DR. BERRY: This lawyer has.

15 DR. EINSTEIN: (Inaudible) lawyer has
16 moved past that. No, there's other lawyers who
17 say -- I'm surprised, and you were sitting next to
18 me. I thought there would be some legal objection
19 to that when coming out of --

20 MR. SCHEMENT: No, no objection.

21 DR. EINSTEIN: I thought there would be
22 some legal objection to that when coming out of

1 2003, one of my issues was that there's been an
2 awful lot of regulation in terms of structure, and
3 it seems to me that consolidation always comes up.
4 To me, it's a red herring. Consolidation is a red
5 herring, and the big issue is the economic
6 understructure, and as long as organizations or
7 Web Sites or television programs have to aggregate
8 eyeballs, they're going to produce the same
9 programming no matter who it is that's creating
10 the content.

11 So, that was my issue in terms of that,
12 but if you want different content, I believe that
13 you have to regulate what the content is.

14 Now, are you going to streamline it to
15 be particular for particular groups, and I think
16 that was to somebody else's point, can you
17 specifically say this is the African-American
18 community? We certainly have to address it
19 because I think those statistics Professor Hammond
20 put up was from the recent Pew study that only 43
21 percent of African-Americans have broadband in the
22 home. That's deplorable to my mind when you

1 consider that Americans as a whole, it's 63
2 percent of Americans have broadband in the home.

3 But one last point I wanted to make, and
4 a tax onto what some other people were saying.

5 It seems to me it's a chicken and egg
6 issue in terms of adoption. When people realize
7 that there's content online, then they'll go on,
8 but that they have more interest in broadband, but
9 they don't know that there may be content online,
10 so, they stay away from broadband, and this comes
11 up again and again in terms of different media in
12 terms of people's adoption.

13 So, to your point, it may not be that we
14 need new content, it's that we need to let
15 particular groups know that content exists that's
16 important for them.

17 DR. BERRY: And I want to be clearer.
18 I'm only in favor of content regulation if the
19 content that is put on is content I agree with.

20 (Laughter)

21 DR. EINSTEIN: Here, here. Okay.

22 MR. LLOYD: Al, any of the panelists

1 want to jump in there?

2 MR. HAMMOND: Well, I guess the First
3 Amendment prohibition and also the Section 326
4 prohibition against the Commission being involved
5 in dictating content might have something to say
6 about how the Commission proceeds to encourage
7 responsive content. It's one thing to encourage
8 responsive content, another thing to dictate what
9 that should be. And I think that that line is not
10 going to be undrawn in the future.

11 There are a number of entities that we
12 can encourage. And I think that's where the focus
13 should be.

14 MR. BLACKWELL: I -- I --

15 MR. LLOYD: You're hesitating.

16 MR. BLACKWELL: Well, yes. Hesitant as
17 I am to speak on this particular issue, Dr.
18 Einstein and my colleagues on the panel, I would
19 caution you not to paint with too broad a brush
20 with the definitions that you use when you discuss
21 content regulation. And this coming from a person
22 who was raised in a society that, for a long, long

1 time, didn't have the opportunity to define their
2 own selves in the media, and only now the first
3 generation that was born into the new era of
4 Federal Indian Policy of self- determination
5 following policies that were designed to stamp out
6 the Indian-ness in Americans.

7 When you speak of religion and when you
8 speak of content regulation, there is a
9 renaissance of tribal culture that is happening
10 right now in Indian Country, and many tribes are
11 interested in getting involved in the
12 communications revolution to support, to take
13 control and develop culturally-appropriate uses
14 for themselves, and what you may define as
15 "religion," other tribes may define as the way.

16 So, I only share that to try to add a
17 little perspective to the panel. Thank you.

18 MR. LLOYD: So, please, we're
19 encouraging a discussion among the panel. Please
20 jump in.

21 MR. HENDERSON: Well, I was just going
22 to say that I think most lawyers would say that

1 regulating content to the extent you were trying
2 to exclude it would run afoul the First Amendment.
3 On the other hand, promoting or encouraging
4 content to serve communities that may otherwise
5 not be served is a different matter. And I think
6 there are ways to do that permissibly.

7 The other point I wanted to make, and,
8 again, because I don't know a lot about the
9 subject matter here, and my knowledge is somewhat
10 limited, but in terms of the discussion about
11 adoption and use and so forth, it seems to me that
12 it bears careful study and analysis as to why
13 that's so.

14 Some of it certainly may be simply a
15 matter of individual preferences or what have you,
16 but I think if history teaches us anything in this
17 country, there are often far deeper, more powerful
18 institutional forces that have determined who has
19 access to what, and how people get access to
20 things that need to be carefully examined.

21 We are a historical country. We like to
22 think that everything is fine, anything that was

1 troublesome about race or gender or ethnicity is
2 somehow in the past. After all, we now have a
3 black president, so, it must be true. And the
4 problem is we don't go back and look carefully.
5 We don't look at what's going on now and what's
6 happening now and why things are the way they are
7 now in the context of our history, the history of
8 this industry, the history of access to resources.

9 So, while there are certainly other
10 things that should be looked at, I would suggest
11 that things, our own history teaches us that we
12 have to look very, very carefully at the forces
13 that are at work and what are the barriers? Why
14 is there limited access, and what are the barriers
15 to identifying them, and then design effective
16 approaches to overcome them.

17 MR. BLACKWELL: May I follow on that?

18 MR. LLOYD: Very quickly, and then we're
19 going to try to get some questions from the
20 audience.

21 MR. BLACKWELL: Okay. I think Indian
22 Country is a perfect example of what you just

1 mentioned. I mentioned earlier that the tribal
2 governments were left out of the 34 Act and the
3 1996 Telecom Act. It may behoove the FCC to
4 engage in a dialogue that begins to recognize that
5 the larger, economic, competitive framework
6 doesn't operate to success in certain parts of the
7 United States, in certain places and certain
8 communities.

9 I mentioned earlier to you, Mark, that
10 one sizes fits none. What we've learned over the
11 last 10 years since the FCC began working directly
12 with tribes is that the business models in Indian
13 Country, there may be a variety of different types
14 of entities involved, they may be carrier- driven,
15 it may be tribal and industry-driven,
16 public-private partnership, or, in many cases,
17 it's tribes becoming de facto carriers of last
18 resort. But what we've learned is that in every
19 situation, there is a tribal-centric approach to
20 the business model that recognizes we're talking
21 about a remote, cyclically-impooverished region of
22 the country that shares some cultural

1 commonalities.

2 So, let me say this: One of the
3 exciting things to me when I read the Stimulus
4 Bill and the provisions for the stimulus monies
5 for broadband is that they enumerated all of the
6 community-oriented regulatory goals for those
7 monies, and my hope was that it signaled a step in
8 regulation that recognized the value of community
9 as much as the value of competition.

10 There are tribal leaders who participate
11 in the Telecommunications Subcommittee at the
12 National Congress of American Indians that I chair
13 that stand up and say we've been forced to invest
14 our own monies. We've been forced to dig deep
15 into our pot and create these networks. And once
16 those networks are created, those become an asset
17 and trust resource of our nation.

18 So, please, Federal Government, don't
19 regulate in a way that unknowingly changes the
20 market that can obviate the operation of this
21 business model that was created in places like
22 Eagle Butte, South Dakota, rather than K Street

1 and Wall Street.

2 Thank you.

3 MR. LLOYD: So, we have a number of
4 questions from the audience. One says, "For Mr.
5 Hammond. What legally can be done to bring back
6 resale and network access opportunities for small
7 business and entrepreneurs?"

8 MR. HAMMOND: Well, I think the
9 Commission would have to revisit some of its
10 decisions with regard to the unbundled network
11 elements that were, for awhile, made available in
12 the 251 and 252 of the Telecom Act of 1996. And
13 to do so in light of the recognized value that
14 broadband has and the fact that there are pockets
15 of non-deployment or under-deployment, certainly
16 areas that are un-served and underserved that will
17 not get that service unless small entities enter
18 those markets, provide those services, and that in
19 order for those wisps, if you will, and collects
20 to be successful in getting the traffic out of
21 those communities and into the major networks,
22 they're going to have to have interconnection

1 policies, they're going to have to have access to
2 certain elements of the larger networks in order
3 to make that work.

4 That's what I meant by you can't have a
5 policy favoring increased broadband deployment in
6 areas that are underserved or un-served and not
7 recognize that they're going to operate in a
8 broader, regulatory, and economic environment.
9 So, in order to be successful, in order to get the
10 information from Google or from other places,
11 remote sites, you're going to have to pull that
12 information in or you're going to have to go
13 outside the sort of geographic boundaries of that
14 small entity to get access to it. And that's
15 going to require interconnection with all the rest
16 of the networks.

17 What 151 says in the preamble is to make
18 available to all Americans a nationwide and
19 worldwide communication system, not a four-block
20 wide or a six-block wide or small territory-wide
21 communication system. So, that's what I would
22 suggest.

1 MR. LLOYD: Thank you. This is from
2 Eric Garvane, if I'm pronouncing it correctly,
3 Garvane, Garvane.

4 What are the legal barriers and
5 opportunities for low-income individuals who want
6 to develop innovative and invention to increase
7 adoption access?

8 One of the things that we've talked
9 about, disability, we've talked about Native
10 Americans, we've talked about race. We haven't
11 talked about class and whether there's anything
12 regarding poverty status that the Federal
13 Government needs to do or just needs to be
14 cognizant of regarding its actions.

15 Any thoughts from the panel about that?
16 David?

17 MR. HONIG: We didn't focus on it in the
18 Diversity Committee, except to the extent that the
19 overcoming of poverty might be predictive of
20 success in entrepreneurship in FCC-regulated or
21 influenced industry. Certainly if capital is
22 required, your current low-income status might not

1 be helpful irrespective of other values. But
2 you're overcoming it might, and it might also tend
3 to be somewhat predictive of your knowledge of
4 that community from whence you came, its needs,
5 and how you could, as Al was just saying, be
6 responsive to those needs in ways that other
7 companies might not have the knowledge or
8 institutional expertise to do.

9 MR. LLOYD: Mara?

10 DR. BERRY: Yes, I think that's right.
11 But I also think that empowering the poor should
12 always be a goal on its own. Not a goal instead
13 of, but an additional goal. And there will be
14 overlap, of course, because many of the groups
15 that we're talking about are disproportionately
16 poor. But that recognizing that there are class
17 differences and recognizing that there is poverty,
18 I mean, it's deal all across society now, and we
19 do it for higher education access, we do it
20 everywhere, that not just as one element of trying
21 to figure out who's disadvantaged and trying to
22 get to a race-neutral policy or something, which

1 is important. So, I think empowering the poor
2 ought to be one of the goals that you ought to
3 consider. And, of course, you don't have the
4 legal problem because there's no strict scrutiny.
5 Yes.

6 MR. LLOYD: To Thomas, did you want to
7 --

8 MR. HENDERSON: Well, I was just going
9 to say that, to take off on the point that Mara
10 just made, that because, unfortunately, the
11 Supreme Court decided some time ago that poverty
12 was not a suspect classification, therefore,
13 however, the only upside of that is that a
14 government entity can take actions designed to
15 assist folks on the basis of income or poverty
16 without being subject to strict scrutiny.

17 And I would say that goes at the
18 consumer level, that level, as well as, for
19 example, the Department of Transportation program
20 I referred to that is a disadvantaged business
21 program. Race and gender will get you into that
22 status, but so will other forms of disadvantage,

1 including poverty and so forth.

2 I was concerned with, I think, the
3 comments of Professor Einstein, were eye-opening
4 about the old media looking a lot like new media
5 when it's driven by advertising, and, so, the
6 opportunity for disadvantaged businesses to get in
7 and participate also is an opportunity.

8 MR. LLOYD: Sure. Please, Geoff.

9 MR. BLACKWELL: You have a speaker on
10 your next panel that I don't want to preview or
11 involvement, but Toni Bush, who chairs the Telecom
12 and Broadband Issue Subcommittee of the Diversity
13 Advisory Committee, it's why I don't serve under
14 her chairmanship of that subcommittee, as well,
15 and we worked on a recommendation involving the
16 Universal Service Lifeline and Link-Up Programs
17 that the recommendations to the Commission
18 implement those in the broadband context, as well.
19 And it's important to note, I think, that from our
20 perspective in Indian Country, the Enhanced Tribal
21 Lands Lifeline and Link-Up Program, much as
22 Professor Berry said, it is not a racial program,

1 it is a jurisdictional, it is an income-based
2 program and has operated in great success on
3 tribal lands. It is for those income persons,
4 Indian, non- member-Indian, and non-Indian on
5 tribal lands.

6 We also very quickly brushed over the
7 last question. I have a suggestion on your last
8 question in terms of opening up new opportunities.

9 It's a little bit further a field from
10 the unbundled network elements regulations, but
11 the Commission may consider reexamining the
12 secondary markets rules for access to spectrum.
13 We found that in Indian Country, there is not a
14 lack of spectrum, there's a lack of access to it,
15 and there are many regulatees above our lands that
16 just simply don't have the business model that
17 allows them to provide meaningful services. And I
18 would inject the idea that in a review of those
19 rules, there's all sort of rules, that there be
20 the concept of demand aggregation for the uses of
21 these spectrums, as well.

22 Thank you.

1 MR. LLOYD: Al?

2 MR. HAMMOND: One more point on the
3 universal service concept, and that is that, right
4 now, the Universal Service Fund is under a
5 tremendous amount of pressure, at least the larger
6 entities that are providing a substantial amount
7 of that money are facing competition and perceive
8 that as cutting into the size of the fund, and
9 there are questions about who's to be eligible for
10 continuation of that fund, if it's for build out,
11 and there are also questions about whether or not
12 the eligibility in terms of Lifeline and Link- Up
13 are going to be changed, as well.

14 So, again, you can't make decisions on
15 one area without being aware of the pressures that
16 are going to come from other areas.

17 DR. BERRY: Can I just say this?

18 MR. LLOYD: Please. Sure.

19 DR. BERRY: That's the second time that
20 Professor Hammond has made that point, which I
21 think is the most important point that has been
22 made here today. He's made it in two different

1 ways. That whatever you're doing here at the FCC,
2 you have to, as you develop this policy, look at
3 everything you do to see how it fits, doesn't fit,
4 how it will work with the policy goal that you
5 have for this access and utilization because
6 there's a tendency in organizations to simply
7 focus on the one thing you're supposed to be
8 working on, and to try to develop something
9 that'll make that work without looking to see that
10 all the moving parts have some kind -- there's a
11 resistance, too, in organizations for people who
12 are doing parts of other things of having whatever
13 they're doing evaluated in light of how it fits
14 with what you're trying to do.

15 So, and it's important to do that, also,
16 for a legal reason. When I talked earlier about
17 alternatives and showing that you have pursued
18 alternatives, one of the ways you do that is by
19 this wholesale kind of review of everything and
20 seeing if there's some different way to put things
21 together, and that's what you show when you're
22 under legal attack for these things.

1 And the last point I'll make because I'm
2 just trying to do this so I won't forget is that
3 when you are analyzing in terms of possible legal
4 attacks and when you develop the strategy, make
5 sure you include the views of people who don't
6 agree with you. And then analyze them. And
7 that's because there's a tendency in organizations
8 when we do plans like this to only include what we
9 believe and not include and dissect the objections
10 that are raised at every point about everything
11 that we plan to do.

12 Okay. I'm done.

13 SPEAKER: (Off mike) a question.

14 MR. LLOYD: Just if you could write the
15 questions down so that we can make sure we've got
16 it on mike. And, Calvin, if you could --

17 SPEAKER: (Off mike) it's a very easy
18 question. I'm not the world's best writer. I
19 would really like to ask this question.

20 TV is free in this country. The FCC,
21 years ago, passed that television would be free,
22 and I think in this country we're really serious

1 about everyone really getting broadband. I think
2 the FCC is going to have to look at a way, how can
3 we bring about free broadband to a lot of the poor
4 areas?

5 For instance, persons who live in public
6 housing. We have many many people --

7 MR. LLOYD: And, so, the question is
8 then --

9 SPEAKER: So, the question is: Could
10 that be a recommendation that the FCC would make
11 that a percentage, so many hours that persons
12 could have free broadband if you live in poor
13 areas and the rural areas of this country?

14 MR. LLOYD: Okay.

15 SPEAKER: How we do TV. And I just want
16 to say that --

17 MR. LLOYD: Okay, so --

18 SPEAKER: Free TV and cable TV are two
19 different things, but if a home wants cable, they
20 have to pay extra, but if a home can't pay for
21 that, they can plug in their TV and still get so
22 many local channels of free TV.

1 MR. LLOYD: All right.

2 SPEAKER: Free information.

3 MR. LLOYD: All right. So, we're going
4 to make sure that we write questions down to try
5 to keep them short, but, David, did you want to
6 try to address that?

7 MR. HONIG: There are two proceedings in
8 which that question is being teed up now without
9 expressing an opinion on them. One of them is an
10 adjudication involving a company that wants to
11 provide a free, national, wireless broadband
12 service to 95 percent of the country, and that
13 application is pending. And the other is the
14 question of whether to extend the Lifeline and
15 Link-Up Programs to include broadband or, perhaps,
16 create a parallel program that includes broadband,
17 and, thus, reduces the cost for those who are not
18 online because primarily of issues of
19 affordability.

20 There is also an element of what you've
21 asked and what Professor Hammond has said that
22 makes it difficult for many new entrants to offer

1 a service for free, and much of that was teed up
2 in Commissioner McDowell's workshop yesterday on
3 capital formation, and that is that it's always
4 been difficult in any FCC-regulated industry for
5 small businesses and disadvantaged businesses to
6 raise capital. It is especially difficult in the
7 broadband space.

8 Among others really, two main reasons:
9 One is that investors want to know when they're
10 going to get paid. And that means when you're
11 going to sell the business to someone else. Well,
12 right now, new industry, we don't know who's going
13 to be there in five years to buy the business.
14 We've certainly seen that because this is such a
15 disruptive technology, the winners and losers that
16 you predict today might be a complete different
17 set of winners and losers in just two or three
18 years. Look what happened to CLECs, for example.

19 And, second, that certainly is
20 exemplified by what happened after the 2006
21 changes to the designated entity rules. Not only
22 is regulation regarded by many investors as

1 particularly discouraging to investment, it's not
2 knowing what the regulations will be, the lack of
3 servitude and predictability, and, thus, the
4 ability to make long-term business plans
5 irrespective of what the regulation ends up being
6 that causes this program, so that if you are a
7 small business coming in and you want to do
8 something as unique as offering a free service as
9 attendant to what you're doing, that requires a
10 measure of risk that the market isn't tolerating
11 for reasons other than the fact that it's free and
12 unique and innovative or needed.

13 MR. LLOYD: So, Al, you wanted to
14 address this, as well?

15 MR. HAMMOND: Just one of the ways in
16 which there's been an attempt to make the Internet
17 free or broadband free was the use of free or
18 unrestricted spectrum in the wireless realm, and
19 that's what Wi-Fi basically was. The idea was
20 that you didn't charge for the spectrum, and,
21 therefore, you're reduced to economic barred entry
22 for companies coming into the space.

1 They were then able to come up with
2 models that didn't require such an upfront cost to
3 the individual subscriber. But there are
4 tradeoffs, and when we work with a group that
5 tried to create a 41-jurisdiction wireless and
6 broadband network in California, one of those
7 tradeoffs that was proposed was that there would
8 be a different protections for privacy rights, for
9 instance, of those who got the service for free
10 and also be more advertising because it was an
11 advertising model, not unlike free TV, that was
12 going to be used. But the problem with that is
13 that then you can't -- I don't know about you, but
14 when I go online and I go to certain sites, I
15 can't move down to the information I want because
16 I got to look at this ad first before I can get
17 there. But that ad is there to sort of finance
18 the access that I'm getting.

19 So, there are models available for that,
20 I just hope that the FCC at least with regard to
21 spectrum will consider those with regard to white
22 spaces, for instance, as a spectrum that if it's

1 made available for free, would stimulate not a
2 rebirth, but an enhancement of what was done in
3 Wi-Fi because the spectrum technology has certain
4 propagation characteristics that allow it to
5 penetrate buildings and go through trees, which
6 Wi-Fi doesn't do. But there's certainly
7 opportunities to do that.

8 MR. LLOYD: So, I've got two questions
9 here from Janelle. One is that the FCC has
10 employed race-neutral means since 1995 to foster
11 diverse ownership in telecommunications, however,
12 there are still low levels of diverse
13 participation. What does that FCC need to show to
14 modify its small business policies? I think
15 that's sort of -- well, that's one question.

16 Another question is: The FCC study when
17 being number one, which was really the civil
18 rights (inaudible) policies, but we'll call it the
19 FCC study. The FCC study when being number one is
20 not enough, talking about no urban or racial
21 dictates illustrated that market forces are
22 distorted and discriminatory when advertising

1 dollars are involved.

2 If content for all people is to
3 flourish, how should the FCC address the reality
4 of minority owners that are harmed by such
5 discrimination?

6 So, any -- Thomas then David.

7 MR. HENDERSON: Yes.

8 MR. LLOYD: Either one of those.

9 MR. HENDERSON: The short answer to the
10 first question, I think, is that to be candid
11 about it, that the FCC needs to go back and take a
12 look at its history. I've done a little bit of
13 that as to what data is available because I think
14 the data will show that at least the FCC was
15 involved in what was a discriminatory market and
16 the discriminatory distribution of licenses. I
17 think there's a long history there, not unlike the
18 history of any other institution in this country.
19 That would provide the basis for remedial efforts
20 to counteract that.

21 My concern is that the FCC has -- it
22 seemed to me from my limited exposure -- tried to

1 take refuge in the diversity language in the
2 statute and never really faced up to squarely the
3 history of discrimination in this industry and its
4 responsibility as a federal entity to respond to
5 and to remedy the effects of that discrimination.
6 I think it needs to do that now, and I think
7 that's the reason that it got into trouble in the
8 Lutheran Church Case and others, and it needs to
9 be squarely faced and remedied, but you've got to
10 do the homework to do that and the hard work of
11 putting that together.

12 So, that's my relatively short answer to
13 your first question.

14 My relatively short answer to your
15 second question, which I think the fact that
16 advertising is continuing to drive what's
17 available is one illustration of why I think it is
18 critically important for the FCC to carefully
19 consider and craft a non-discrimination regulation
20 with respect to the use of the resources that it
21 has regulated because the ability to act to
22 prevent discrimination would empower the FCC to do

1 a lot. There's a lot that you can do, including
2 requiring that the actions of actors in the field
3 or in the industry not have the effect of
4 discriminating or the unjustified effect of
5 discriminating.

6 So, I think that would be a huge and
7 powerful tool and mechanism to carefully regulate
8 to prevent discrimination in advertising and other
9 needs from really affecting what's there and who
10 has access.

11 DR. EINSTEIN: Can I take some --

12 MR. LLOYD: So, Mara, then David. Yes,
13 please. Go ahead.

14 DR. EINSTEIN: I have to say I was
15 really shocked about a year ago; I attended a
16 conference called the Future of Television, what's
17 happening in television, and it was all about
18 things like blip.tv and Break Media and all these
19 new broadband content providers, and every last of
20 them said that advertising was going to be the
21 revenue model. I mean, I couldn't believe it; you
22 could have knocked me off my chair. These are

1 supposed to be all the newest, latest television,
2 and they're coming up with the same sort of
3 things. Remember a year ago, we were in the midst
4 of the beginning of the recession, and, so, that's
5 exactly the time when the bottom is going to fall
6 out of the advertising market, and that's what
7 people are looking to fund what is going to be the
8 existing content, which, to me, made absolutely no
9 sense.

10 That being said, whether it's an NPR
11 kind of thing or a CPB example or some kind of
12 government funding so that there's a place where
13 content other than that that is supported by
14 advertising money can exist within the broadband
15 space, but there also has to be funding for the
16 marketing of it, and that's a real argument I'm
17 trying to make here. Given how ubiquitous the
18 Internet is and how much information is on there,
19 the only ones we're hearing about are sort of the
20 information that's provided by the big providers
21 who have the money to tell us that that stuff
22 exists. There's lots of other information out

1 there, but unless you're a researcher and know how
2 to get it, you can't reach it. And we have to be
3 very good at teaching broad parts of our public
4 what exists.

5 The other thing I wanted to suggest also
6 is some of you might have seen this last week. An
7 investor had invested in a new community news
8 organization, but the staffing of that was going
9 to be provided by the local NPR station and also
10 by the local journalism school, the graduate
11 journalism school.

12 So, that's the other issue when you
13 start to bring new content into this space is you
14 have to have a staff that's able to constantly put
15 up new information because if you're not putting
16 up new information all the time, you don't end up
17 at the top of the Google search. Right? And the
18 content has to be new and updated, so, you have to
19 have the staffing for that sort of thing. So,
20 also new and innovative ways has to be understood
21 about how to put the manpower and the labor behind
22 these Web Sites, as well.

1 MR. LLOYD: Good. Thank you. David?

2 MR. HONIG: I want to address both of
3 Janelle's questions. There were two cases, well,
4 several, but two that I want to just flag in the
5 Supreme Court that addressed this question of
6 race-neutral remedies, and what had to be
7 undertaken by a governmental unit before it could
8 consider race-conscious remedies.

9 In the City of Richmond v. Croson in
10 1989, one issue that arose was must each and every
11 conceivable race-neutral method be tried and have
12 had to have failed before a race-conscious remedy
13 could be considered, and the answer was no, a
14 reasonable subset of them must, but not every
15 conceivable one that the power of the mind of man
16 or woman can think of.

17 In 2007, I think it was, parents
18 involved, Justice Kennedy's opinion.

19 DR. BERRY: 2006.

20 MR. HONIG: It seemed to change that,
21 and if I read it correctly, it is that virtually
22 everything that can be thought of that is

1 race-neutral must have been tried and have failed
2 before one can consider a race-conscious remedy.

3 Now, in the case of the FCC, the one
4 thing that it could do that would certainly both
5 make sure that maybe race-neutral remedies could
6 work is to actually try them, and then if they
7 don't work, to be in the position to consider
8 race-conscious remedies fairly quickly.

9 There are some 44 still pending
10 recommendations by the Diversity Committee, some
11 of them arising from 2004, 2005, a prolific
12 period, still waiting for Commission action. In
13 just the broadcasting field, there are 14
14 proposals still teed up a year-and-a-half comments
15 have been filed, going to how to diversify
16 broadcast ownership, all race-neutral, all
17 deregulatory, and we're still waiting. And some
18 of them dated back to 1970s.

19 The example that Janelle mentioned, the
20 rule against advertising discrimination, it
21 provides a good example of why the Commission
22 should really act a little quicker and have a

1 higher priority so this doesn't happen to
2 broadband.

3 That proposal to ban discrimination in
4 advertising, the involvement of it by FCC
5 licensees was first made by NABOB in 1984. It
6 took five tries to get the Commission to adopt it.
7 Finally, in December 2007, it was adopted through
8 the initiative largely of Commissioner Adelstein
9 and Commissioner McDowell. We're still waiting
10 for the appointment of a compliance officer to
11 enforce this rule, which is the first new civil
12 rights mandate by any federal agency since 1977,
13 and the first one that was unopposed in history.

14 How much money is involved here? If you
15 take the Ofori and Napoli studies, Napoli's was
16 (inaudible) in 2002, and extrapolate this, it's
17 about \$200 million a year that minority
18 broadcasters alone earned, but never collect.

19 Now, how can we make sure that this
20 doesn't happen, this infection of the free
21 marketplace by racial discrimination in broadband
22 and affecting broadband content?

1 Well, the Federal Trade Commission is
2 going to have to either use its existing authority
3 or find new authority to work in this area. The
4 one thing that this commission could do that would
5 be useful would be to reach out to its sister
6 agency and say please help us to enforce the rule
7 that we have and to extend it platform-neutrally
8 to all similar technologies.

9 MR. LLOYD: So, I'm going to give Mara
10 the last word, and, unfortunately, we're going to
11 have to close. We're a little over time.

12 DR. EINSTEIN: I'm going to talk fast.

13 MR. LLOYD: I've been given the --

14 DR. EINSTEIN: I'm going to talk real
15 fast.

16 MR. LLOYD: Okay. Go right ahead.

17 DR. EINSTEIN: Real, real fast. On your
18 first question only I'm addressing about the
19 history, and I agree with Tom, and I wanted to say
20 that there's a lot of information about the
21 history of the FCC in that Window Dressing Report
22 that I referred to earlier, and in a book that I

1 published -- I'm not trying to sell it, you can
2 get it at the library. It's called "And Justice
3 for All," and it's a history of the Civil Rights
4 Commission in the struggle for civil rights in
5 this country, and it has a lot of information
6 about the reaction to the report, stuff the FCC
7 did during the Civil Rights Movement, and what it
8 condoned, and what it has done since, and I think
9 for this policy statement, I'm persuaded that you
10 ought to talk not just about diversity, but you
11 ought to talk about the history of the FCC's
12 culpability which it needs to remedy with some
13 detail, and the reason why you need to do that,
14 this court that sits now doesn't much like
15 history. I'm talking about the Supreme Court.
16 When it comes to race, especially. But you ought
17 to tell it anyway because the court may change or
18 they may decide to read it, and who knows? But
19 it's important to do that to lay a predicate for
20 the discussion of something beyond race neutral,
21 and on the various alternatives on race neutral
22 and how many you have to exhaust.

1 I agree with what David said about the
2 Seattle Case, but other federal agencies have
3 tried other things that were race-neutral in
4 response to that 1995 Adarand, and since then,
5 with varying degrees. So, you might be able to
6 look at some of things that they have already
7 done, even if the FCC hasn't done them and it
8 didn't work, by the way, and then you would be
9 able to say tick off that one, and that's all of
10 what I meant in the beginning when I talked about
11 looking at alternatives and making clear that you
12 have said that you looked at them.

13 Thank you.

14 MR. LLOYD: Well, thank you for bringing
15 us back around.

16 So, this has been a rich and very
17 informative panel. We're going to take a lunch
18 break for about an hour and come back with a
19 discussion about best practices and how to move
20 this forward, and thank the panel very much for
21 joining us.

22 (Applause)

1 (Recess)

2 MR. LLOYD: So, thank you again for
3 joining us. I know we've got a number of folks
4 who went out for lunch. Some of them will be
5 coming back, but we need to end at 2:00 (sic)
6 because it's Friday and people have got a weekend
7 to attend to.

8 SPEAKER: It's 2:00. You meant 4:00.

9 MR. LLOYD: Yes, we end at 4:00. I'm
10 sorry. Again, my name is Mark Lloyd, I'm
11 associate general counsel and chief diversity
12 officer here at the Federal Communications
13 Commission. This is a workshop today looking at
14 diversity and civil rights issues in broadband
15 adoption and access.

16 Antoinette Cook Bush and I sat down and
17 talked about what this panel was about, and she
18 got so excited and focused about the need to talk
19 about best practices and what's really working now
20 that can really help this broadband plan and stop
21 wasting your time with all this abstract stuff,
22 and I said you sound an awful lot like Blair here

1 at the FCC trying to get us focused, and, so, Toni
2 really helped to pull this panel together.

3 And I think we're just going to get
4 right to it. I think the challenge facing the
5 broadband team is trying to figure out exactly the
6 question that Toni posed, which is what
7 realistically can we start getting going on? And
8 we've got a good, diverse group of presenters here
9 to do that, and Toni's going to bat cleanup to
10 sort of help us focus again and pull things
11 around.

12 And we're going to start with a good
13 friend, Laura Efurd, who is with ZeroDivide. You
14 used to be the Community Technology Foundation, I
15 think.

16 MS. EFURD: That's correct. (Off mike.)

17 MR. LLOYD: In California. And one of
18 the things that I was really interested with Laura
19 sort of coming in is that you actually fund people
20 to do best practices, and you might actually have
21 some idea about what they are, and, so, why don't
22 we start with you?

1 MS. EFURD: Great. Thank you, Mark.

2 Good afternoon.

3 Well, the good news is that there are a
4 lot of things happening out there and a lot of
5 good programs that are going on, and, so, I just
6 want to tell you a little bit about what we've
7 learned over the last 10 years.

8 ZeroDivide is a public foundation that
9 has invested close to \$50 million in technology
10 adoption programs in California specifically to
11 really address issues in underserved communities.
12 For us, we look at these communities as low
13 income, minority, the immigrant community,
14 non-English-speaking, seniors, and disability
15 community. Anyone who's not adopting technology
16 like broadband at the same rates as the general
17 population.

18 And, so, although we learned earlier
19 broadband is on the rise, but there are still a
20 number of communities that are not fully utilizing
21 this technology. I think some of the panelists
22 earlier today really emphasized some data that

1 shows these points, and what was really gratifying
2 to me is this is actually what we're finding at
3 the ground level, as well, that while income level
4 is a key indicator of who is adopting broadband,
5 there are also other factors, such as race, age,
6 disability status, place of residence, or
7 geography can also be a determinant factor of
8 whether someone is a broadband user or subscriber.

9 Really what we found is that technology
10 adoption or the term "digital divide" is really a
11 part of a larger set of divides, it's part of the
12 political, economic, cultural divide that happens
13 in this country, and, so, we need to look at it
14 and address it at the level in a holistic way.

15 Sometimes, the data doesn't even tell us
16 exactly what's happening in the world today. We
17 talked a little bit about, for example, data
18 around Asian-Americans and whether it's showing us
19 the true picture there. Some might be really
20 surprised to know that even in the very heart of
21 technology-savvy San Francisco, Chinatown actually
22 does not have a lot of broadband access, and they

1 have among the lowest rates of broadband users in
2 San Francisco.

3 So, while access and affordability are
4 key issues driving broadband adoption in these
5 communities, ZeroDivide has learned that barriers
6 to adoption are complex, they vary among different
7 populations, it's not the same. They cannot
8 always be resolved with a one-size-fits-all
9 approach.

10 Some of the other issues that we found
11 really impact the population's ability to adopt
12 broadband include relevance, and a lot was talked
13 about this morning in terms of things that are
14 really relevant to people's lives. And, so, some
15 of the programs that we've come across, like the
16 Mural Music and Arts Program in East Palo Alto and
17 the DJ Project in San Francisco use the genre of
18 hip-hop to engage young people in learning
19 technology and broadband applications.

20 Now, all of them may not come out these
21 programs as the next breakout hip-hop artist of
22 their generation, but they will learn technical

1 skills that will help them in their educational
2 pursuits and in their jobs.

3 Other issues are content and
4 applications. A recent report by the Tomas Rivera
5 Policy Institute study showed that, for the
6 Hispanic community, voiceover IP might be a great
7 driver for broadband adoption because they can
8 then connect with members of their families
9 overseas quite readily and at much lower costs
10 than through typical telephone.

11 Language is an issue, training and
12 technical support, and, of course, also privacy
13 and security concerns. Some of these things were
14 brought up earlier today.

15 So, let's talk a little bit about what
16 works. So, over the last several years, what we
17 found that really works is number one is
18 leadership. So, really building leadership in
19 underserved communities that understand the value
20 of broadband and its applications, this has been a
21 key driver to technology adoption, and what
22 happens is these leaders actually serve as

1 translators for their community. They conduct
2 outreach, they start new programs, they're
3 entrepreneurs, and create new applications that
4 the community can choose, and, often, they're not
5 found in traditional leadership positions.

6 They may actually be the mom in the
7 neighborhood that all the kids go to her house or
8 she's the connector in the community, and, so, she
9 really understands the value to education for her
10 kids to be involved in technology.

11 So, one of the key issues is really
12 building the capacity of these non-traditional
13 leaders to promote technology and broadband in
14 their communities.

15 The other is relevant content, and we
16 talked a lot about this earlier, so, I'm not going
17 to talk that much about it today because we all
18 know people have to find or use the technology for
19 something that they really are interested in.

20 The key point I want to bring up here
21 that wasn't brought up earlier is what we found
22 particularly in the last three or four years is

1 that it's not just availability of the content
2 online that drives people to use it, but it's
3 actually the ability to be a content creator
4 themselves, right? So, for people who could
5 actually post videos, to do podcasts, to do blogs,
6 to interact with their peers online, that is what
7 is driving people online in addition to other
8 kinds of things like finding employment or looking
9 at health care information online, but it's just
10 really this notion that you, too, can participate,
11 that you can be a content creator that has really
12 driven people to become more interested in
13 broadband and online.

14 The content has to be relevant. This
15 post on the slide from Generations Online really
16 looked at how do we get seniors online? So, they
17 have a very easy, step-by-step application and
18 training of how to actually connect online, and
19 they focus on things like connecting with people
20 from your past and looking at photos and memories.
21 They focus on how do I connect with my children or
22 grandchildren online, and those kinds of things.

1 The other key point really is about
2 focusing on community-based organizations and
3 building an ecosystem for broadband adoption in a
4 community.

5 This example that I'm showing is Little
6 Tokyo, which is a part of Los Angeles. They
7 actually have about 400,000 residents, a very
8 low-income area. Half their population is under
9 the poverty line. And what they have done there
10 is they've created a wireless system. They
11 provide free broadband outdoors and they also
12 provide training through a community technology
13 center, and they've actually blanketed the
14 community with free wireless, have actually helped
15 158 homes get broadband within their homes through
16 this wireless system, and train them how to use
17 the technology. And, so, these low-income
18 individuals are actually connecting.

19 Another major issue and things that we
20 found worked is sustainability. That was a key
21 thing for us. We were created in the heyday of
22 folks investing both from the public sector and

1 private sector in bridging the digital divide.

2 Over the last 10 years, we've seen our
3 peers disappear. Very few foundations investing
4 in technology adoption these days. And, so, what
5 we realized was we needed to help these
6 organizations who are helping people connect to
7 technology become sustainable themselves. So,
8 they would become community assets in the
9 community for the long-term.

10 And, so, an example of that is Change
11 Agent Productions, which is associated with a YMCA
12 in Long Beach, California. They have been
13 training young people on multimedia technology,
14 how to do videos, how to connect to broadband for
15 several years now, and, so, what they've done is
16 they developed a small production company where
17 the young people actually produce videos, Web
18 Sites, do training for a private sector and public
19 sector companies, and they actually make money.
20 So, in their first year, they earned \$110,000.
21 That's gross. They were able to actually make a
22 profit of about -- that's actually a typo on my

1 slide. It's \$17,000, and they trained and
2 recruited over 100 minority youth to do this, who
3 actually got paid to do the work. So, not only
4 did they see that they could help sustain their
5 organization that was helping them, they also saw
6 the value of their own work.

7 The other great thing about Change Agent
8 Productions is their rates of graduation of the
9 students who participate in their program is about
10 95 percent, graduation from high school. Long
11 Beach Unified, the graduation rate is about 80
12 percent. So, they're making an impact in their
13 educational, as well as their economic
14 opportunities for the future.

15 The last example I want to give is Youth
16 Radio out of Oakland, California. Getting back to
17 a lot of what was talked about in the earlier
18 panels about creating content, this is an
19 organization that are helping at-risk youth not
20 only learn how to use technology, but actually
21 create content themselves. Thirteen hours of
22 youth-produced editors creating digital media.

1 They trained 100 new youth producers, and their
2 productions are viewed online, they're on radio,
3 they're picked up by NPR. So, this is a real way
4 to get more diverse content into the realm and
5 also allow youth to see that they can actually
6 produce that content and make a difference and
7 connect to broadband.

8 So, I'm going to end my presentation
9 there and look forward to the question and answer
10 session.

11 MR. LLOYD: Great. Thanks, Laura. As
12 the president of the National Urban Technology,
13 did you found the National Urban -- wow, president
14 and founder of the National Urban Technology
15 Center. Patricia Bransford, we're really sort of
16 interested in, there's been an awful lot of talk
17 about the importance of broadband for
18 entertainment, perhaps not as much talk about the
19 importance of broadband for education, and, so,
20 really looking forward to your presentation.

21 MS. BRANSFORD: Thank you. I am honored
22 to be here, and I must say encouraged by the

1 political will that I have heard in this room this
2 morning.

3 We are entering, I think, an era where
4 we have an administration that is squarely behind
5 us, that is committing a fair amount of stimulus
6 funding to accomplish some of the goals that we've
7 been looking at for the last 10 years. I would
8 say Laura's organization started about the same
9 time that Urban Tech did. In fact, she gave the
10 first part of my presentation, which is going to
11 make it easy for me, which is to build this
12 ecosystem of neighborhood centers where people can
13 actually go and learn how to use the applications,
14 where we can conduct after-school programs where
15 kids can do all the wonderful things that Laura
16 was talking about.

17 What we have found though in the last
18 10, 15 years is that these are very exclusive
19 (inaudible) and people don't go outside of those
20 centers, and I've had many people just say to me,
21 Pat, I want to learn word processing. Where can I
22 go?

1 Well, if you haven't been funded by Boys
2 and Girls or by another organization, you really
3 don't feel welcome, and, so, I was happy to see
4 the latest Department of Commerce NOFA that talked
5 about public centers, but now we've got to be
6 concerned with libraries closing and other public
7 centers that aren't sustainable.

8 We actually are very excited about
9 moving to a digital campus, quite frankly. One
10 place where our young people can come to get
11 state-of-the-art curriculum, that is designed
12 around storytelling, and I'm looking at this woman
13 right here because she came to me at break and she
14 said, Internet, the Web has got to be more
15 conducive to people with different learning
16 styles. And that's what we're all about.

17 What we have learned over the last 15
18 years is that technology can be very effective in
19 turning on that light bulb and awakening those
20 spirits, especially the young people who are in
21 that 30 percent who have not gotten a high school
22 diploma, whose parents have not gotten a high

1 school diploma, and, therefore, will have children
2 without a high school diploma. We need to really
3 focus on that 30 percent in, I think, the next 10
4 years and spend stimulus money providing civil
5 rights, as Mary said, to that group of individuals
6 who are cut off, virtually cut off from education
7 today.

8 My peers that I'm working with are
9 telling me that they come to school in the
10 morning, they leave for lunch, and never come
11 back. We have 50 percent on average dropout in
12 this country. In some cities, in Baltimore, it's
13 77 percent.

14 And, as an IBMer who has worked 30 years
15 in solving corporate problems, I want to tell you
16 that technology can solve that problem. But it's
17 not using word processing necessarily or some of
18 the tools that are fun to use, it's actually using
19 technology strategically in the classroom to make
20 learning more visual, to provide opportunities for
21 animation and multimedia, rich multimedia
22 interactive exercises, and then having those young

1 people be able to communicate with their peers
2 using networking strategies that everybody's using
3 with Facebook and LinkedIn and what have you.

4 So, we need to really step back now and
5 say we've gone through our first chapter that was
6 spearheaded by the Clinton Administration where we
7 all got our grants from TIIAP and other grants to
8 go out and build centers. Now we want to look at
9 more strategic use of technology in education to
10 include those 30 percent that are dropping out
11 today.

12 I'm way ahead of these slides because I
13 know that Laura really gave my pitch. So, I'm
14 just going to (inaudible) it so quickly. That's
15 our mission statement. I also have some handouts
16 here. But just bottom line, just like ZeroDivide,
17 which was the Community Technology --

18 MS. EFURD: Foundation.

19 MS. BRANSFORD: Foundation, we started
20 in 1995 to provide technology resources to schools
21 and community-based organizations in low-income
22 communities that were on the dirt road to the

1 Super Highway. But, as we built those centers, we
2 realized that we needed content, we needed
3 training, we needed applications that helped solve
4 community problems because many of the 750 centers
5 that we have put in over the last 15 years have
6 actually languished because they either didn't
7 have the content to continue to engage the
8 community or they could not find the resources or
9 the funding to continue to pay for the support of
10 their centers.

11 And, so, that is one challenge that I
12 think the FCC has to look at in the next few
13 years, is how do we continue to build the capacity
14 in the centers, in neighborhoods that are helping
15 people today, and then how do you give those
16 centers mobile technology that they can actually
17 go out to a home in a neighborhood where maybe 12
18 to 15 people are gathered for training. So, we
19 need to move out into the community now where
20 people are because a lot of people aren't coming
21 to centers. And, so, that's one thing that we
22 have learned.

1 This just says that we have reached
2 about 1 million people. It is basically in
3 partnership with Department of Justice, who was
4 our first big partner in Weed and Seed Sites, and,
5 so, we are actually the technology provider that
6 builds capacity in those centers.

7 But, as we were looking at content, we
8 found that young people were very excited about
9 technology and that we could teach social and
10 emotional skills. We could build life skills that
11 are so important for academic achievement, and we
12 also think that the next breakthrough application
13 is to build assessment tools that actually look at
14 those impacts of life experiences and collect data
15 that we can then use to correct problems as they
16 occur.

17 I'll just give one example. I just need
18 to know when I'm running out of time. I'm not
19 sure how to read the timer. Are you going to tell
20 me?

21 MR. LLOYD: Okay, you have about two
22 minutes. You have about two minutes.

1 MS. EFURD: Okay. I'm just going to
2 tell a quick story that I think really illustrates
3 the importance of what I'm saying. And it's
4 really analogist to the electronic health records,
5 by the way, that we see are really actually a
6 commitment of this administration with a lot of
7 funding behind it. This would be an assessment of
8 every student from the time that student comes to
9 school, pre-school until high school, looking at
10 social, emotional skills, leadership, social
11 development, because those are the skills that are
12 necessary for academic achievement.

13 The quick story is, this June, we were
14 visiting our grandson in California. He goes to

15 very fine school, and he's a gifted student, and
16 he got his report card and he got all As in the
17 academics, but there was one line there, Tommy
18 feeds into negative behavior in the classroom.

19 Now, this came in June, his mother had
20 no idea when it occurred. It could have occurred
21 February, March. She didn't know what the
22 negative behavior was. She didn't know even how

1 to discipline him or if she should discipline him.
2 I said, why don't you e-mail the teacher? The
3 teacher was on vacation by then. It was later in
4 June. But one teacher did e-mail her back and
5 said there was just one person that wanted to put
6 that on the report card.

7 So, in my mind, that was a teaching
8 moment. That was a time when teachers or the
9 educators actually could have looked at what are
10 the best ways to use this moment to make Tommy a
11 leader, to make him more positive about education,
12 to give him, if you will, enthusiasm for moving
13 ahead. And, so, I would say that if we can build
14 those data systems, large data warehouses like
15 Amazon.com has that says this is the way this
16 student learns and this is the way we need to give
17 him the opportunities that he needs to move ahead.

18 I think that I'm out of time, so, I'll
19 take a break here and wait until the questions.
20 How's that?

21 MR. LLOYD: That's great. Thank you.

22 MS. EFURD: Okay.

1 MR. LLOYD: Thank you very much. So,
2 Heather Dawn Thompson, partner in law firm
3 Sonnenschein Nath & Rosenthal, LLP. We've been
4 talking an awful lot about the challenges in
5 Native American Land, but there are some things
6 that are actually working, I understand. So,
7 could you sort of give us at least somewhat of a
8 brighter picture about service to Native American
9 Land?

10 MS. THOMPSON: Sure. Thank you so much
11 for having us here, Mark, and we really appreciate
12 being included in these panels.

13 (Speaking in Lakota) My name is
14 (speaking in Lakota). My English
15 name is Heather Dawn Thompson. I
16 am from the Cheyenne River Sioux
17 Reservation in South Dakota, and I
18 am now a partner here in D.C. at
19 Sonnenschein, and I work with
20 several tribal governments
21 regarding their telecommunications
22 issues. And, so, we're just

1 delighted to be here and be
2 included. Thank you so much.

3 I know that Mark and Geoff were here
4 earlier on some of the panels, and, so, they've
5 gone over some of the challenges in Indian
6 Country. In many respects, we share many of the
7 similar issues with other minority communities
8 with access and a lot of dissimilar concerns from
9 both a legal and a social and economic
10 perspective.

11 With that said, there are, of course,
12 some very unique things within tribal communities
13 because we, in addition to being minority groups,
14 are also governments. And we receive our services
15 through our tribal governments. There are over
16 560 governments in the United States, tribal
17 governments still, and we, unfortunately, continue
18 to be some of the most impoverished and
19 least-accessible.

20 In your history books, you sort of
21 remember where they put the Indians. Well, we're
22 sort of still there. And it's sort of hard to get

1 there, and it's hard to get telecommunications
2 there.

3 I always tell a couple of funny stories.
4 These are cell phone related, but they have
5 similar overplay in the broadband area.

6 For a very long time when I would go
7 home with my cell phone, the cell service
8 literally stopped as soon as you crossed the
9 Indian border onto Indian reservation. I'm from
10 South Dakota. I'd be driving, talking on the
11 phone, I cross the reservation border, and my cell
12 service would stop. So, whenever I was home, I'd
13 have to drive about an hour-and-a-half from my
14 grandmother's house across the border in the
15 adjoining, non-Indian community in order to talk
16 on the phone, send my e-mails, do my text, and
17 then go back home for the night. And we're sort
18 of very similar, unfortunately, in the broadband
19 arena. You can have complete service surrounding
20 you, and then it just sort of stops at the
21 reservation borders.

22 And Mark and Geoff went through some of

1 the reasons why that's true earlier as far as data
2 and access, but, unfortunately, I think one of the
3 simplest explanations and one of the reasons why
4 there are some success stories which I'm going to
5 go into is that a lot of people aren't familiar
6 with tribal governments. It's uncomfortable for
7 them, and, so, they just don't deal with it. They
8 just build around us. And this, unfortunately,
9 has been true with almost all of America's
10 infrastructure. The railroads, the electrical
11 utility lines, the cell towers, everything has
12 just gone around our communities and left this
13 hole of infrastructure. And, so, we are hoping,
14 praying, begging that this doesn't happen with
15 broadband and that we are included in this
16 national plan in a very positive and proactive
17 way.

18 And some of the things that have been
19 happening already in Indian Country that are very
20 good examples of how you can do this and how it
21 can work are threefold. I'm going to talk about
22 tribal government self-determination, creative

1 financing, and federal inclusion.

2 From a tribal government
3 self-determination standpoint, as in many of our
4 communities, what's happening now isn't working,
5 all right, and they're not reaching out to us,
6 they're not building out into our communities,
7 and, in fact, a lot of these broadband companies
8 are saying that they're serving our communities in
9 order to get grants, in order to have special
10 status, and they're actually not serving our
11 communities.

12 And, so, what you've had is by default,
13 many of the tribal governments have created their
14 own telecommunication companies. Unfortunately,
15 it's not that many. Out of 560 tribes, we only
16 have about 8 or 9, but where these tribes have
17 created their own tribal communications has been
18 extraordinarily successful. We have seen an
19 average 85 percent increase in service gains.

20 One example is the Mescalero Apache.
21 They went from about a 60 percent penetration rate
22 for phone service to about 99 percent. And, so,

1 we've seen this be very successful in the
2 wireline, in wireless service areas, and we're
3 hoping to see this also within the broadband
4 arena.

5 Tribal governments have incentive to
6 serve their community and make sure that their
7 people have access, and, so, where it might not be
8 economically feasible or a really great business
9 model for the private sector, that government's
10 going to make sure that their community has
11 access.

12 And, so, that has been one of the
13 strongest models to ensure penetration in the
14 telecommunications arena for tribal governments,
15 is make sure that the governments themselves, that
16 whatever rules we have in place, whatever grants
17 we have in place, that the tribal governments
18 themselves are empowered to create those
19 telecommunication companies and provide those
20 services themselves. That has been, by far, one
21 of the most successful models thus far in Indian
22 Country. And we are advocating to grow that model

1 across the board, including spectrum and
2 frequencies and licensing, rights of way issues.

3 Across the whole board, the goal is
4 tribal self-determination. The government knows
5 what's best for its people and how to deliver it
6 to its people, and it's going to make sure that
7 those services are provided in a good way.

8 The second part of that is creative
9 financing. Many of our communities are
10 underserved because it's not necessarily a strong
11 business economic model for a lot of the private
12 companies out there, and this is sort of true for
13 the governments, too, but the governments have
14 public incentives. And, so, they have been very
15 creative about the financing that they put
16 together in order to provide these services from
17 going to foundations to using the Lifeline and the
18 Link-Up has been really instrumental, and we hope
19 to see that expand into broadband. Quite frankly,
20 no business model works in Indian Country without
21 that subsidy. It just wouldn't happen.

22 They've done 911. One of the tribes in

1 South Dakota, the Ogala Sioux, has started their
2 own 911. As far as I know, I think that's the
3 only reservation in the United States that has 911
4 service. But that 911 service and the charge for
5 that has helped subsidize the entire
6 telecommunications system there on the Indian
7 reservation.

8 They have gone and asked for a waiver of
9 matching funds. They have asked for grants
10 instead of loans through the RUS System. So,
11 these are the only, by cobbling together sort of
12 this creative financing structure, have we been
13 able to provide any telecommunication services.
14 So, that has sort of been the second really
15 successful example of how you can do this in
16 Indian Country, but it does take creativity, it
17 does take flexibility, which the Federal
18 Government, unfortunately, isn't always well-known
19 for. But we continue to advocate to be very
20 flexible in the financing aspects.

21 I have 13 seconds. Is that right?
22 Okay. The third and final area of where we've

1 seen success in increased federal consultation
2 like today. We very much appreciate being
3 included on this panel.

4 In many subject matters, you can imagine
5 within the Federal Government, tribal governmental
6 voice is almost non-existent, and, so, when that
7 happens, the policies, the procedures, the
8 economic stimulus funds, all these decisions are
9 made in a vacuum about what works best for Indian
10 Country, and it ends up usually being decisions
11 that are not appropriate for Indian Country
12 because our governments are different, the legal
13 structure is completely different, the
14 constitutional relationship is completely
15 different. It's not impossible, but it is
16 different.

17 And, so, we continue to encourage
18 consultation and committee. The FCC has started
19 to become a leader in this area, and, for that,
20 we're very grateful, and we are starting to see
21 that trickle down to Commerce and Agriculture for
22 the other aspects of communication, but we really

1 sort of do turn to the FCC to ask you to be our
2 advocates with the other agencies that are still
3 learning the differences both from a legal and a
4 practice standpoint in Indian Country.

5 Okay, I'm done. I'm over. Sorry.

6 (Laughter)

7 MR. LLOYD: Thank you very much. Very,
8 very useful.

9 One of the conversations that we've had
10 off and on throughout the day, and I think almost
11 throughout all of the workshops related to
12 broadband and the FCC's broadband plan, it has to
13 do with money and resources and the investment
14 community, and, so, we really are privileged to
15 have you, Jonathan Glass, to come here and join us
16 and to provide us some perspective about best
17 practices and what do you see from your firm and
18 what we ought to be looking at.

19 MR. GLASS: Sure.

20 MR. LLOYD: So, thank you for joining us
21 here today.

22 MR. GLASS: Thank you, Mark, for

1 inviting me to participate and inviting our firm
2 to participate in this important panel.

3 My name is Jonathan Glass, and I'm
4 principal with Council Tree Investors, and we're
5 an investment fund devoted to increasing ownership
6 in telecommunications media and other industries
7 by minorities and women. While, at the same time,
8 delivering returns to our investors.

9 Over the last two decades, our
10 investment projects have included work with
11 Latino, Native American, and African-American
12 entrepreneurs. Business people with drive,
13 creativity, intelligence, and, unfortunately, too
14 often, a lack of access to capital.

15 And, as an example, we provided critical
16 capital at the development stage of Telemundo, a
17 Spanish language programmer, which, today, is
18 owned by NBC, and then on a very local level,
19 Garden State Communications, owner of WWSI TV in
20 Philadelphia, we got it to be the first
21 African-American-owned, full power TV station in
22 Philadelphia, which provides Spanish language

1 programming.

2 Our philosophy is very simple, that
3 diversity is good business. In our experience
4 where there are untapped markets due to
5 historically un-served populations, there's an
6 opportunity to create new businesses devoted to
7 those populations, and, out of that, new wealth
8 and capital formation.

9 This taskforce must ask itself how can
10 you spur investment in poor communities? How can
11 the private sector help to address the
12 disproportionately high number of broadband
13 un-served and underserved people in particularly
14 poor minority communities?

15 There actually is a simple answer if
16 implemented, and that would have a major impact,
17 and that is increase the level of ownership
18 diversity of broadband service providers.

19 When the key assets for providing
20 broadband services are owned by a diverse group,
21 then those owners will tend to develop services
22 tailored for the un-served and underserved poor

1 and minority communities. We at Council Tree can
2 tell you this from experience. We've helped to
3 build such businesses.

4 Diversifying ownership and attracting
5 capital does not occur in a vacuum. It requires
6 effective public policy. In Council Tree's
7 experience, the most successful policy tool ever
8 implemented to diversify ownership, attract
9 capital, and spur investment in poor communities
10 was the FCC's Designated Entity Program prior to
11 the rule changes made in 2006. Essentially, the
12 Designated Entity Program allowed today's small
13 businesses and very small businesses prior to
14 Adarand, specifically in minority and women-owned
15 businesses, the ability to acquire spectrum and
16 FCC auctions, either spectrum set aside or closed,
17 only available to those designated entities, or
18 with significant bid discounts.

19 We experienced firsthand how this policy
20 created greater diversity of backgrounds of the
21 owners of these licenses, and, in turn, innovation
22 and better service to the un-served and

1 underserved markets.

2 For example, both Leap Wireless and
3 Metro PCS began as DE licensees, and evolved into
4 the Cricket brand, which I see all over
5 Washington, D.C., which is very exciting, and
6 Metro PCS brands, which disproportionately serve
7 urban and minority communities.

8 In the broadband, to diversifying
9 ownership of the next generation of wireless
10 broadband licenses through a reinvigorated DE
11 Program will help the FCC achieve the goal of
12 increasing broadband service and uptake among
13 un-served and underserved populations.

14 As this taskforce knows, wireless
15 broadband is one of the key areas of future
16 delivery of broadband. Wireless is really the way
17 to get things out there, specifically where fiber
18 isn't accessible and copper is not accessible.

19 So, specifically, the Designated Entity
20 Program has the potential to once again be a key
21 policy tool for achieving the FCC's broadband
22 diversity goals. The FCC, however, must restore

1 the rules to their pre-2006 status in order to
2 make the program work best.

3 I'll give a little background on this.

4 In 2006, on the eve of the \$14 billion Advanced
5 and Wireless Services Auction, the largest
6 spectrum auction at that time, then Chairman
7 Martin changed the DE rules by increasing the
8 regulatory burdens on DE licenses. The Commission
9 doubled the amount of time a DE licensee must hold
10 this license, and severely restricted the DE's
11 ability to wholesale capacity of third parties.
12 It previously did away with closed auctions among
13 DE-only bidders, and instead had DE bidders
14 competing with some of the largest corporations in
15 the world for licenses. In other words, the DE
16 licenses became more encumbered than their non-DE
17 counterparts, and DE bidders were given less
18 opportunity to secure spectrum.

19 What was the result? I know that
20 Chairman Janikowski is very data-driven in his
21 decision-making and wants the Commission to go
22 that way. The data is pretty simple. Before

1 2006, just over 50 percent of the dollar value of
2 licenses were awarded to designated entities,
3 pretty significant. After those rule changes, the
4 numbers plummeted to less than 3 percent in both
5 the 2006 AWS Auction and the more recent 700
6 megahertz auction. And even more serious
7 specifically to this panel, women-owned businesses
8 won no licenses, and minority-owned companies won
9 only 7 of 1,090 licenses. So, pretty significant
10 decline, and that was just making those two
11 changes.

12 So, and as I'm saying, I'm speaking as a
13 private investor, saying that if these rules
14 change, we'll get the flow of capital back into
15 designated entities, and this will lead to more
16 service, better service for the poorer communities
17 and the minority communities.

18 To be fair, the Designated Entity
19 Program, some people have voiced concern that it's
20 vulnerable to abuse and it's constitutionally
21 infirm. Both of those arguments are without
22 merit. Have there been abuses of DE rules in the

1 past? Yes, but, as a percentage of total DE
2 licenses, such abuses were very few. Other FCC
3 rules have been abused, but that doesn't mean we
4 threw out those rules. That is why we have the
5 FCC Enforcement Bureau and the courts. People who
6 violate rules should be punished, but let's not
7 punish underserved communities by throwing out the
8 enabling DE rules altogether.

9 In terms of Adarand, I won't go too into
10 it, because I see I'm almost running out of time
11 or I have run out of time. But there was a D.C.
12 Circuit Court that basically said in a ruling that
13 the rules still stand for the Designated Entity
14 Program. And, let's see. In fact, the Diversity
15 Advisory Committee adopted a resolution to restore
16 the DE Program to it's pre-2006 status just
17 recently. And we think that it will have an
18 incredible impact in the broadband context in
19 terms of building new networks, new wireless
20 networks.

21 Just a quick thing on Indian Country, we
22 also see a significant opportunity there from an

1 investment standpoint. In terms of broadband,
2 there definitely is a divide there, and we, today,
3 are involved in a venture that has applied for a
4 stimulus grant to provide satellite, middle mile
5 service to Alaska and Hawaii, areas that have a
6 very large Native populations and very un-served
7 areas.

8 So, it's programs like those, it's focus
9 grants, universal service funding for broadband in
10 Indian Country, and a restored DE Program will go
11 a long way to bridge the digital divide.

12 Thank you very much for having me, and
13 we really are excited about this area, and think
14 there is a great investment opportunity here, and
15 we want to play a part of that.

16 MR. LLOYD: Great. Thank you, Jonathan.
17 Really appreciate it.

18 Antoinette Cook Bush, not only are you a
19 partner at Skadden Arps, you're in charge of the
20 Communications Group there. You also chair the
21 Diversity Advisory Committee at the FCC looking at
22 broadband, and you've come up with a variety of

1 different recommendations from that committee
2 about what the FCC should do, and you've really
3 sort of helped lead this particular panel in
4 pulling it together. So, I want to end at least
5 the presentations with you, but please feel free
6 to sort of figure out where you want to make sure
7 the other panelists sort of pick things up.

8 MS. BUSH: Well, I want to thank you,
9 Mark, for your leadership and taking this issue
10 on, and to congratulate you on your new position
11 at the FCC. It's really exciting to have a chief
12 diversity officer at the Commission, and you're
13 off to a great start.

14 And I also want to thank the Commission
15 for holding these workshops. I mean, I know that
16 for the Commission and all the staff that have
17 been working on it, it's a huge responsibility. I
18 mean, they've had, I don't know, Blair went
19 through it the other day, but they've had hundreds
20 of people come to the Commission from all
21 different walks of life to talk about the
22 broadband plan, and I really think -- and those

1 workshops are available via the Internet, on the
2 FCC's Web Site, and it's really been a tremendous
3 effort to reach out to the community, one that
4 we've never seen before. So, thank you very much.

5 Mark did mention that I chair the
6 Subcommittee on Broadband and Telecom for the
7 FCC's Diversity Advisory Committee, and we did
8 just last week have a meeting of our committee,
9 and we did make recommendations to the Commission,
10 and this panel is directly a follow-up on our
11 recommendations. And I'll also note that some of
12 my committee members are here, and I appreciate
13 that and all of their hard work in putting this
14 together.

15 We came up with a number of
16 recommendations focused on enabling un-served and
17 underserved populations and minority populations
18 to have the ability to acquire and make effective
19 use of broadband service. We had essentially four
20 proposals. One was that the government should
21 modify its existing Universal Service Fund,
22 Lifeline, and Link-Up Programs, which are designed

1 to provide service for basic telephone service in
2 underserved and low-income communities to expand
3 it so that consumers in those communities would be
4 able to use it acquire broadband service.

5 We also recommended that the government
6 should look at similar programs that are in place
7 for tribal communities and look at expanding the
8 programs there.

9 We suggested that the government review
10 the E-Rate Program, which provides affordable
11 access to telecommunication services for schools
12 and libraries with the idea of making sure that
13 those entities, the ones that we have left, are
14 able to provide broadband service.

15 For those of you who don't live in
16 Washington, there's been a lot talk here about
17 closing libraries, so, it's a sensitive subject.

18 The third proposal was that the
19 government should consider incentives for adoption
20 of Next Generation High-Speed Services at
21 affordable prices.

22 And then our fourth recommendation,

1 which is directly related to this panel, is the
2 government should partner with national and local
3 organizations, such as some of those represented
4 here, in communities and institutions to build
5 awareness and foster demand. For example, these
6 institutions could develop programs to assist
7 people in leveraging their current technology
8 devices, such as cell phones or PDAs, into
9 broadband adoption and relevant applications.

10 And we also listed a number of
11 organizations, some of which are here today, as
12 examples of organizations that the government
13 should work with. I think our thinking was and is
14 that there are a lot of terrific programs in place
15 around the country.

16 Congress has allocated significant
17 funding to a variety of institutions, including
18 NTIA and the Department of Agriculture or the
19 Rural Utilities Service, and they're going to be
20 giving out grants, and it's our hope that some of
21 those grants will go to entities who have programs
22 in communities that are working to enable them to

1 expand the reach of those programs rather than
2 simply reinventing the wheel every time we just --
3 starting new programs, but look at what's already
4 going on.

5 And the report, I'll put it in the
6 record of the proceeding, our recommendation, and
7 we also made a separate recommendation, which has
8 already been discussed on the Designated Entity
9 Program.

10 I did want, and, unfortunately, they
11 weren't able to be here, either a representative
12 from LULAC or La Raza because I did want to
13 mention, for example, that LULAC, which is an
14 organization focused on the Latino community,
15 operates 57 community technology centers focused
16 on the Hispanic community, and, so, that would be
17 another example of a program that the government
18 and the FCC could look to as they go forward.

19 And then I wanted to also mention the
20 day we had our last diversity committee meeting,
21 the Joint Center for Political Studies issued a
22 report, and our committee is going to be taking a

1 look at their report, but there has been some
2 discussion about cell phones here, and when we
3 look at sort of the vast disparities, and they're
4 very dramatic when you look at minority
5 communities, the one place where they're not
6 dramatic is in cell phone use. And according to
7 the Joint Center report, in the United States
8 today, 84 percent of white Americans have cell
9 phones, 83 percent of African-Americans, and 89
10 percent of Hispanic. And, so, that's the one
11 common area where -- actually, Hispanics exceed
12 everybody else, but, in addition, it's the one
13 area where everybody has access to the technology.

14 And I think that that's something that
15 we would hope the FCC would look at as we talk
16 about wireless deployment, the fact that cell
17 phones have really penetrated across the country
18 all demographics. There was discussion about the
19 fact that we have prepaid services, Cricket,
20 Virgin Mobile, others that offer low-cost
21 alternatives that, given the penetration, we
22 really ought to look at how can we use cell phones

1 to help advance broadband as we move forward.

2 And then the other area that I'd like to
3 mention now that I'm completely out of time, and
4 I'll just say it, but also looking at other kinds
5 of things that advanced deployment. We talked
6 about content.

7 What are content providers in this
8 country doing? Black Entertainment Television, TV
9 One, Telemundo. I mean, we've got a broad range
10 of content providers, Univision targeting the
11 minority communities. What kinds of ideas do they
12 have about what we can do to help in this arena?

13 And then we also have other kinds of
14 organizations. Is there a way that radio should
15 be a part of this? Radios are now accessible on
16 iPods. I think we really need to take a very
17 broad look at what's out there and how we can use
18 what's out there to help these communities.

19 Thank you.

20 MR. LLOYD: Great. Thanks, Toni. And,
21 yes, time, it just sort of clicks away, doesn't
22 it, once you start going.

1 MS. COOK: Yes.

2 MR. LLOYD: Patricia, where would you
3 place education in terms of its value as an
4 application to promote adoption by communities
5 that seem to not be adopting advanced
6 telecommunication services? And should we be
7 looking at the problem of adoption in terms of how
8 much does this promote solving the problem of
9 education in this country?

10 MS. BRANSFORD: Well, education has had
11 a major role in increasing access and adoption of
12 broadband over the last 15 years. It's been the
13 education that has been done by all of the
14 non-profits that have been at the table.

15 Now, what we've also found that
16 education and broadband work hand-in-hand in the
17 sense that the more an individual uses broadband,
18 the more educational opportunity they have. So,
19 it's almost a multiplier effect in a way.

20 We are focusing on that 30 percent
21 because that is what also causes the dropout rate
22 in this country. We talked about the holistic

1 look at the gap, and we think that broadband
2 technology, again, in the next chapter, can play a
3 major role in a very strategic way looking at
4 education and how it is provided in our schools,
5 and why our kids are dropping out. I think that
6 they're not engaged, the content is not relevant
7 culturally.

8 We have developed the Youth Leadership
9 Academy, which is now Web-based. We have
10 demonstrated effectiveness in many different
11 schools. Interestingly enough, sustainability is
12 our big challenge in the sense that if we get a
13 two-year grant to fund a project and we show
14 results like kids (inaudible) or better and
15 they're socially adept and they know technology
16 and they're becoming leaders in the community XXX
17 BEGIN TRACK MZ000225 XXX as soon as that funding
18 ends, the school has to drop the project, and, so,
19 it's really the sustainability of funding and
20 being able to see things long-term and not in the
21 small funding bites that we have today.

22 MR. LLOYD: So, Laura, I saw you nodding

1 your head. Is sustainability the problem, whether
2 it's education or health care, whatever the
3 community use is, and what's the --

4 MS. EFURD: Yes, sustainability is a key
5 issue, but I just wanted to add a quick anecdote
6 on the education issue.

7 We are putting in a wireless system in
8 Evergreen public housing in Sacramento, and they
9 have quite a few Hmong families. These are
10 immigrants from Laos and Vietnam, and they would
11 not let their children attend the technology
12 training classes. And, so, the staff had to go
13 and just really explain to them. They just didn't
14 understand what it was about, what the value was,
15 and once they said this is going to help your
16 children's education, then they were all for it.
17 Once they made that connection to education, it
18 was a huge driver for allowing their children to
19 participate in training.

20 But sustainability really is a key
21 issue, and it was really interesting to hear
22 Commissioner McDowell talk about capital markets

1 for entrepreneurs in broadband technologies, and I
2 think what's even more difficult in the non-profit
3 sector who are the key organizations that are
4 trying to provide that additional assistance to
5 get people connected to broadband, that capital
6 markets there are even more broken.

7 All right, so, just as Patricia was
8 explaining, it's based grant to grant to grant.
9 There's no sustainable funding where someone can
10 say I can take this community over 10 years and
11 bring them into the broadband age because they
12 don't know year to year whether they're going to
13 get funding.

14 And that's what we experienced. We have
15 \$50 million 10 years ago to bridge the digital
16 divide in California. There was no way we could
17 do it with that amount of money. And started
18 looking at well, how could we actually really
19 begin to look at the markets in these underserved
20 communities, build technology applications that
21 they wanted to use, and be able to basically put
22 those out in the marketplace so they can sustain

1 their programs.

2 And I think those are some of the key
3 things, and my sort of call to the Commission
4 would be to see what the White House Office of
5 Social Innovation is thinking around a
6 sustainability in general, and connect that to
7 what's happening in the broadband plan, as well,
8 to be able to seed some really innovative ideas to
9 promote that in underserved communities.

10 MR. LLOYD: So, Toni, did you want to
11 jump in there?

12 MS. BUSH: Well, it wasn't on an
13 education point.

14 MR. LLOYD: Oh, no, but go ahead.

15 MS. BUSH: But I think it goes to the
16 importance of having people educated and
17 comfortable using technology, which was one of the
18 previous panels -- and I can't remember who, I
19 just know I didn't say it, but I heard it. One of
20 the previous panels or workshops, somebody
21 mentioned the fact that, amongst the large
22 companies in America, it was a very significant

1 number, it was like 50 or 60 percent of them no
2 longer advertise in the paper. That all of their
3 job advertisements are done online. So, if you
4 don't have access to the Internet, you can't even
5 get a job.

6 And it's the same thing with cell
7 phones. If you don't have a phone, I mean, there
8 are a lot of issues that we don't think about, but
9 how dependent we are on technology now, and for
10 communities where there's high levels of
11 unemployment, if you also have no access to the
12 Internet, you won't even be able to find 70
13 percent of the jobs that are out there.

14 MR. LLOYD: Jonathan, one of the
15 questions that keeps, I think, coming up
16 particularly with regard to traditionally
17 underserved communities, whether it's the disabled
18 community or minority communities or communities
19 in rural areas, is that the market simply doesn't
20 support funding or investing in those particular
21 communities, but Council Tree has made, I think, a
22 business of finding ways to support those

1 particular communities.

2 Can you give some perspective about how
3 you look at these markets? It may be a little
4 different in the way other investors --

5 MR. GLASS: Yes. I think it's
6 interesting. I was just jotting down here, and I
7 think part of the answer is there really does have
8 to be a public-private partnership in markets
9 where it's uneconomic if there aren't enough
10 returns. So, the government does have to step in,
11 and we were very gratified to see the Stimulus
12 Program and the \$7.2 billion between RUS and NTIA
13 being made available to bring broadband to these
14 communities. The idea is that it's going to be
15 hard to serve an area that isn't near a fiber
16 line. So, you have to bring something to it.

17 Right now for us, we're very focused on
18 satellite as a way to get out there, but without
19 the government grant and government involvement,
20 it just wouldn't work, and then, as I talked about
21 the DE Program, a significant entry into the
22 wireless area is the cost of a license. If there

1 isn't a DE Program where there are discounts given
2 to small and minority-owned businesses, it's going
3 to be very hard to get into those areas, but, on
4 the other hand, as I said, it's very important for
5 the ownership -- if the ownership is a diverse
6 ownership group, it's also going to look to serve
7 those markets where if it's not diverse, they're
8 not going to serve those markets.

9 So, I think government has a very
10 important role to play here, and we've looked at
11 ways where you can leverage government capital
12 with private capital to get returns for us as an
13 investor, but, also, achieve the social goals that
14 are very important that we need to see done.

15 MR. LLOYD: So, do programs like
16 Lifeline and Link-Up support a sustained economic
17 model, and is it sustainable enough for an
18 investment firm to be interested?

19 MR. GLASS: Yes, I think so. One
20 company that we looked at awhile back was a
21 provider of wireless service to Native population
22 in Arizona, and it was dependent on Lifeline

1 because, just given the density and the population
2 in that area, it was impossible to get a return.

3 So, I think government, again, Lifeline
4 is very important, and I think, Heather, you had
5 said that we have to see Lifeline for broadband,
6 as well, because, as Toni had said, wireless has
7 really been evened out in terms of penetration and
8 I think that, likewise, we have to see broadband
9 somehow do that and part of it is the success of
10 the DE Program and creating some companies that
11 have really served this market and also made the
12 product more affordable. Affordability is another
13 key aspect of this, and how do we make this an
14 affordable product for everybody?

15 MR. LLOYD: Great. So, we've got a
16 couple of questions from folks in the audience.
17 This is actually for Patrician Bransford. How
18 would the digital campus work? I think you
19 mentioned a digital campus. And how do you
20 envision extending the educational resources to
21 the home? Lack of in-home computers, Internet
22 connections is obviously a challenge.

1 MS. BRANSFORD: Let's start with the
2 digital campus. We think that one of the
3 challenges in low-income, minority communities is
4 being able to navigate the Internet. Children's
5 Partnership said that, other organizations have
6 said it, as well. And we believe that the
7 solution to that is bringing the resources
8 together in one portal, that homes can access. We
9 need to make it user-friendly, and that that then
10 would be, if you will, the ecosystem for our
11 curriculum for education. That teachers can go
12 there and produce their digital curriculum on the
13 spot, that they can get resources in libraries and
14 museums all over.

15 To me, it's like AOL was years ago. And
16 then as the market matured, we didn't need AOL,
17 but I think now low-income communities need a
18 digital campus for education.

19 The other question had to do with home.

20 MR. LLOYD: Right.

21 MS. BRANSFORD: And that's a very
22 important piece of it. In fact, we take computers

1 that corporations give us. Pfizer, for example,
2 has given us up to 600, year-old computers when
3 they laid off 1,800 people in New York, and we
4 actually will deploy them in the home of students
5 that are in our programs in the high schools.

6 One program I should mention is Get
7 Healthy, Get Smart, which is in 40 schools. We
8 reach 10,000 students. Parents are involved. We
9 will give them computers for their homes so that
10 they also can get access to the health education
11 that we are integrating into the classroom.

12 This is being funded right now by Elton
13 John Foundation, that is very interested in
14 reducing the incidents of sexually-transmitted
15 diseases. For our minority girls 13 and over,
16 it's 48 percent at this point. That's a huge
17 number, and it's really caused by not having
18 education. And, so, this will be a way to get
19 families involved to support what we're doing in
20 the classroom. It's an absolute critical part of
21 closing the divide.

22 MR. LLOYD: This is to Mr. Glass. When

1 wireless is taken as a key to broadband adoption,
2 are you speaking about air cards used with laptops
3 or do you believe cell phones or Smart Phones
4 serve as a comparable conduit for broadband?

5 MR. GLASS: I guess I think Smart Phones
6 and air cards and however you can access it, so
7 long as you can get the content that you need. I
8 think that's fine. I mean, I would hate to see
9 kind of low-level cell phone Internet access as
10 being the only way to access the Internet for
11 poorer communities because my BlackBerry is not
12 that good. I can only imagine that a regular cell
13 phone is ever worse. So, I would want to see more
14 of it, but I think we need levels of entry, and if
15 that's the first entry point, that's great, but
16 I'd like to see more --

17 MS. BRANSFORD: Robust.

18 MR. GLASS: Robust, robust access as
19 part of it.

20 MS. BRANSFORD: Yes.

21 MR. LLOYD: So, and, Laura, you are
22 funding folks to do work in providing broadband

1 services in some underserved communities.

2 What do you find as the most sort of
3 frequent request for funds that you get, and what
4 are people asking for and how do you decide what
5 makes the most sense to fund?

6 MS. EFURD: Yes, so, I would say that
7 the most request we get really is to support
8 public institutions or non-profit organizations
9 that are then helping these communities connect to
10 broadband. We get a lot of applications for
11 training, people on multimedia technology because,
12 as I was saying earlier, really, in the last
13 several years, the desire to connect to broadband
14 has been a lot about being a content creator
15 themselves. So, it's not just about sort of being
16 a viewer of online content, but actually a
17 participant and a contributor. So, I think that's
18 been key. We really look at what's relevant for
19 the community that they're trying to serve.

20 A project we looked at recently I
21 thought was very fascinating in that they were
22 looking at putting computers and laptops into

1 primarily churches. The previous panel won't like
2 this, but in churches in remote areas of Hawaii
3 that served predominantly Native Hawaiian seniors,
4 and that this Hawaiian language content including
5 the Bible and other kinds of things that they had
6 translated into Hawaiian that were all online.
7 For them to be able to access that content, and
8 for a Native Hawaiian senior who wants to see more
9 Native Hawaiian content, I mean, that was a huge
10 driver for them.

11 So, I think we look at what is the
12 relevancy? It may not seem the most logical, and
13 I think that's a problem when looking at this from
14 the federal level. There's a great desire to
15 scale programs, and I think there are a lot of
16 great programs that can be scaled, but there are a
17 lot of programs that have to be really targeted to
18 the community that it's going to serve and be
19 relevant to that community, and that doesn't
20 always lend itself to scale in a large way, but to
21 serve that niche in that community. So, I think
22 that's probably the largest factor that we

1 consider.

2 Just one point on cell phones as an
3 entry-level point. We have a project that we're
4 investing in called EDTEXT. So, it's all about
5 texting so that teachers can text to parents
6 because that's the kind of technology that they
7 have, and I think even at that point, as the
8 parents are getting used to communicating with the
9 teachers via text, it just gets them in that mode
10 of oh, this is important, I need to do this, and
11 then the next level would be can we help them get
12 a computer at home so they can actually connect
13 via e-mail and other things like that.

14 So, I do think there is something about
15 that entry point, I think a lot more demonstration
16 programs need to be funded in that particular
17 area.

18 MR. LLOYD: And, Heather, there's a
19 question about the range of Native American
20 adoption of both telephone and broadband service
21 in that there's such a variety among Native
22 American both tribes and whether they're in urban

1 and rural areas. We have some very wealthy Native
2 American tribes and we have some very poor Native
3 American tribes.

4 When you look at what's working in the
5 Native American community, is there a connection,
6 is there a correlation between what's working is

7 working for a tribe that has money and it's not
8 working for a tribe that doesn't have money?

9 MS. EFURD: That's a great question. I
10 think like any community, if you have money, it's
11 easier. There is a misperception though that a
12 large percentage of our communities do have money,
13 and out of the 564 tribes, there are probably only
14 about 40 or so that are the ones that you see on
15 the TV that have really large incomes due to their
16 economic endeavors. We're hoping the other ones
17 are the on the way.

18 With that said, a lot of our impediments
19 in addition to the income levels, which applies
20 across the board, are the physical remoteness that
21 we've been talking about. Even if you start to
22 make a little bit more money, you sort of come up

1 in those ranks.

2 We're still so isolated in Alaska, in
3 the Great Plains, that we continue to have these
4 barriers to build out from the private companies.
5 So, those continue to still be there, and until
6 the governments and the Native- owned companies
7 are empowered to sort of do it themselves, we're
8 probably going to continue to see that.

9 We also have similar cultural barriers
10 as far as adoption. Not all of our community
11 speaks English, and until some of the content
12 that's available is going to be more particular to
13 those communities, it's going to continue to not
14 be valued as a high priority. A lot of people in
15 our communities don't see the value to them. They
16 are both physically isolated and also, quite
17 frankly, emotionally and sort of socially isolated
18 from the rest of the United States, as well. So,
19 unless it's in their language and perhaps it's
20 teaching them something that's relevant to their
21 community or to their kids, it's not going to
22 register with everybody immediately as being a

1 high priority for them. Especially when it's
2 expensive.

3 MR. LLOYD: Wow, very interesting. We
4 have a question here. There's a comment about
5 broadband and national competitiveness. The U.S.
6 is behind other countries in broadband adoption.
7 Looking at the examples of what works here, is
8 there anything that you see that might help the
9 U.S. sort of catch up with Iceland, or do you
10 know?

11 MS. BRANSFORD: Yes, that was a chart
12 that I have in the handout.

13 MR. LLOYD: Yes.

14 MS. BRANSFORD: And, in fact, it shows
15 the United States ranked 18 among developed
16 nations, and that's down from 15 two years ago.
17 So, we're sinking, and this is, I would call it, a
18 national crisis. And it really actually comes
19 from, again, not looking at that classroom as a
20 place to integrate technology.

21 What other countries are doing
22 differently, first of all, they are motivating

1 teachers to see the benefit of technology. This
2 is a national mandate, by the way. It's not
3 necessarily market forces working here. Using
4 technology aggressively for teaching and learning.
5 Invest in equipment for schools and in training
6 teachers to use the technology, and I would add
7 here to put in homes to support what's going on in
8 the classroom.

9 And, finally, the other countries are
10 providing all schools and students with the same
11 opportunities, and, so, you don't have that
12 diversity based on income. We have very poor
13 schools in the United States that are producing
14 dropouts.

15 I have heard that a child that comes in,
16 it could be a gifted student who comes into one of
17 those warehouses or factories, dropout factories,
18 drops out, and, so, we need to go and seriously
19 look at those schools that need to be integrated
20 with the tools that we know will work because
21 other countries are doing it, it works in those
22 countries, and we're sinking, and it's a crisis.

1 MR. LLOYD: We have a question here for
2 Toni. Universal Service Funding money has been
3 deployed since the 1996 Telecommunications Act to
4 schools and libraries in the billions.

5 Would it be helpful to ascertain the
6 current status of Internet connectivity to those
7 awardees so that the government knows what schools
8 and libraries need additional funds or where
9 broadband can be deployed quickly and efficiently.

10 MS. BUSH: Makes sense to me. I have to
11 admit, it's not my area of expertise, but, you
12 know, my assumption is that actually as part of

13 the broadband mapping plan, that that is one of
14 the things that's going to be done because it's
15 going to be looking at, you know, how broadband is
16 being deployed.

17 And I also know that the FCC conducts
18 audits of the programs, the E-rate program, and
19 has been doing that. And so I think that, yes,
20 that's very important, and also at, you know, some
21 level, looking at sort of qualitatively, you know,
22 what works and what doesn't work, not just who,

1 you know, has been connected and who hasn't, but
2 are there ways of doing that or places that have
3 proved more effective or less effective that I
4 think we should be looking at.

5 MS. EFURD: Mark, I would actually - I
6 totally agree with Tony. I would add to that
7 also, what would be really helpful is to get a
8 picture of also what the connectivity is among
9 other non-profit institutions and community anchor
10 institutions, whether they're community health
11 clinics or, you know, local economic development
12 organizations, you know, small social service
13 agencies serving immigrant populations, because
14 that's where a lot of people connect to first and
15 that's where they're going to learn about how they
16 can utilize the technology and bring it into their
17 home and use it, but a lot of those institutions
18 themselves are barely connected, you know, they're
19 all running everything off of one DSL line, and
20 they, you know, they can't do all the work they
21 need to, so I think that would be another
22 important aspect to look at.

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1 Because there's sort of this, you know,
2 this layer of infrastructure in our country that's
3 sort of disconnected, and we don't have a good
4 picture of what they're doing, but they're
5 providing so much to these communities.

6 MR. LLOYD: So --

7 MS. BUSH: I was just going to say, I
8 would say one other thing that I think we ought to
9 be looking at, is that when we look at, you know,
10 the fact that, you know, applications and content
11 is often a driver, you know, what kinds of content
12 are lurking and what lurks in different
13 communities, you know, with first seniors.

14 I mean, you know, my mother is like an
15 avid bridge player on the internet, she may never
16 respond to your email, but she's got that bridge
17 down. And so I think that, you know, we do need
18 to get an assessment of, you know, what are the
19 actual applications, you know, and I think we can
20 get, you know, information. There's a lot of
21 applications that, you know, wireless providers
22 are using now that ISP's and others are providing

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1 to subscribers, you know, just to get a sort of
2 feel for them, like how many people are, you know,
3 spend, you know, how much time playing games,
4 doing research, you know, so what are, you know,
5 those people that have it, you know, what are they
6 looking for in helping us decide what areas we
7 should be looking at.

8 MR. LLOYD: We had a question that was
9 for an earlier panel that I put to the side
10 because it actually seemed like it might actually
11 be better asked to this panel, and that is, once
12 you make sure everyone is connected with
13 broadband, what's next? How you give an incentive
14 to the underrepresented and underserved American
15 citizens, not just consume the technology, but
16 become participants, and how do you teach them to
17 produce with broadband? So anyone want to --

18 MS. BRANSFORD: I just think we've got
19 models that we're running right now where we see
20 students actually taking over. If you give them
21 the tools, they will use those tools. We had a
22 graduation ceremony and we had a teacher get up, a

1 six foot man got up and said, you know,
2 approaching the subject of sexually transmitted
3 diseases was very difficult for me, but I knew I
4 had to do it because the education is important.
5 I put those tools out there to the students, I
6 gave them the interactive exercises, they took
7 over, they led the class. And so I will say that
8 they're more adept really than I think most of our
9 adult teaching staff, and we're - by the way,
10 that's all converging, as well. But I don't think
11 we have to worry about students really beginning
12 to create, that's my feeling about that. What do
13 you think?

14 MS. EFURD: I totally agree. I think
15 the question is a little - it's almost backwards,
16 because I think it's - once people know what they
17 can do, they want to participate, they want to be
18 active in their community and use the internet to
19 connect with civic engagement activities and
20 advocacy, they want to do that, or they want to,
21 you know, put all their pictures up on Flickr or
22 connect with their relatives via Facebook.

1 So I think that, you know, it really is
2 opening those doors, both from a perspective of
3 providing the access making it affordable, but
4 also having them learn. This is what the
5 opportunities are. And then I think from there, I
6 don't think any of us can predict, you know. I
7 just think there will be some really interesting
8 innovations that happen in communities that you
9 didn't think would happen, you know.

10 The great thing about underserved
11 communities is, they're really used to doing a lot
12 of very little, and so there's a lot of innovation
13 going on, and so I think once you sort of give
14 them that boost, you know, amazing things will
15 happen.

16 MR. LLOYD: So, Heather, you looked like
17 you wanted to jump in there, as well.

18 MS. THOMPSON: I just wanted to, you
19 know, reiterate I think - I agree with what you've
20 both said on this instance, and people are hungry
21 to participate in this. And I think, you know,
22 one of the things within the native community that

1 people are most excited about is to be able to
2 stay in our nation.

3 I mean look at me, I live in Washington,
4 D.C., it's very hard, our unemployment is 90
5 percent where I'm from in Cheyenne River, there
6 are very limited job opportunities, and so to be
7 able to have this type of access and start
8 businesses at home and empower your community, I
9 mean people are just chomping at the bit to open
10 up this broadband and get going and to be able to
11 empower from within.

12 MS. BRANSFORD: I would --

13 MR. LLOYD: Please, go ahead. So,
14 Jonathan, did you --

15 MR. GLASS: No, I may just - I guess the
16 point is that, you know, in that case, it really
17 is about getting the networks to reach those
18 markets. And there are many things that we're
19 talking about, but I mean that is I think --
20 number one, to get the numbers higher is to get
21 networks built, and number two is to get people to
22 adopt, which, you know, I commend these

1 organizations for doing that, I mean I think
2 that's key, and that helps business, too, if
3 people are adopting, so --

4 MR. LLOYD: Sorry, Patricia, go ahead.

5 MS. BRANSFORD: I was just also going to
6 put up another plug for a mandate. We've seen No
7 Child Left Behind really take off. I know New
8 York just spent tens of millions of dollars
9 putting together an administrative system to track
10 schools for No Child Left Behind, but that is the
11 measurement system, that's an administrative
12 system. It doesn't really help those 50 percent
13 kids who are dropping out. And so they have the
14 same mandate for education, for instructional
15 technologies. We would see that 30 percent
16 collapse. And I think we would get very close to
17 100 percent graduation. I mean I - that's my
18 dream at least, that, you know, I am really
19 passionate about that 30 percent, which - the 30
20 percent that isn't adopting, but the 50 and over
21 that are dropping out of school, I think if we can
22 bring those kids in, we will see this gap, you

1 know, now. So I'm for the mandate, I'm for a No
2 Child Left Behind.

3 MR. LLOYD: In broadband?

4 MS. BRANSFORD: In education.

5 MR. LLOYD: Yes.

6 MS. BRANDFORD: Real - children.

7 MR. LLOYD: So, Tony, I'm going to ask
8 you if - let's sort of pretend that Blair is
9 sitting right here and he's saying, all right, so
10 all this is great, we're hearing all these
11 wonderful things that are going to happen with
12 broadband, and folks are going to connect, and
13 folks are - what is the takeaway for the broadband
14 team regarding what they should put in that plan
15 and what they learned from best practices? Is it
16 that there are best practices out there and the
17 government should just continue to fund them, is
18 it - like what's the takeaway for them?

19 MS. BUSH: Well, I think the takeaway is
20 that - what I, you know, in my dream world I think
21 that the broadband plan would recommend to
22 Congress that they identify programs, you know, in

1 communities that are working now, and you know,
2 and expand those programs, you know, and that
3 they, you know, say, okay, we've got, you know,
4 these programs that are, you know, deploying
5 broadband, that are providing education and
6 training, you know, in these communities, and
7 let's expand them and try to replicate them in
8 other communities since we already have the model
9 in place to do it, and that, you know, I think
10 that's where I would, you know, that would be my
11 recommendation.

12 MR. LLOYD: And it may have been you,
13 Patricia, but there was someone who mentioned best
14 practices outside of the United States. And I
15 know that we've got a recommendation from Congress
16 to come up with a set of metrics I think regarding
17 deployment, and to measure that versus what other
18 countries are doing. Do you have any sense that
19 we've got a sense of the best practices in other
20 countries?

21 MS. BRANSFORD: Well, that's not a field
22 that I have any information about. But I think it

1 is a very good idea to begin looking at what is it
2 about other nations that they are successful in
3 graduating students, in increasing the quality of
4 education and health through education, and
5 preventative medicine, and we are not able to do
6 that, because we've got this barrier that stands
7 between the U.S. and the distribution of
8 information and education, and that's the lack of
9 broadband. We're not using it strategically, and
10 that, for me, is the main thing.

11 I think it's great to look at all of
12 what the communities are doing in neighborhoods,
13 you know, but I think a national mandate to
14 actually look at education, compare it to other
15 nations and come up with some metrics is really I
16 think the way to go. And then we'll include
17 teachers, all teachers, all principals, all
18 students, they'll all line up and be universal
19 users of broadband.

20 MR. LLOYD: So the same question.

21 MS. BUSH: Well, I just was going to say
22 I don't completely agree, because I think that,

1 you know, too much emphasis on what's going on in
2 other countries can sort of distract us from what
3 we're doing here. And I think we have to realize
4 that a lot of the countries that are listed as
5 ahead of us are very different, they're much more
6 homogeneous, they're small in population, they've
7 got more money, you know, there are a lot of other
8 factors I those countries that, you know, we just
9 can't duplicate that, and that it's not, you know,
10 going to be realistic for us I think to spend too
11 much time on that.

12 I think - and it's not to say that only
13 focusing on sort of community programs is the
14 right answer, but I do think what you're saying
15 about the importance of a broadband mandate, I
16 think it's important that that is going to be key,
17 you know, and that we have a realistic plan that's
18 funded for implementing whatever is decided. I
19 think that's, you know, going to be the key to it.

20 MR. LLOYD: Yeah, I think that makes an
21 awful lot of sense. Despite that, I am going to
22 ask Heather, do you know anything about what

1 Canada does in its treatment of indigenous
2 populations, and is it different from what we do
3 here in the U.S., with regard to providing
4 telecommunication services?

5 MS. THOMPSON: It's a great question and
6 I don't know the answer to it. We have very
7 similar legal structures with Canada, as far as
8 the tribal government and the governments having
9 jurisdiction over their lands, and therefore, the
10 federal - the tribal governments having
11 jurisdiction over their lands, and therefore, the
12 federal government deployment plan having to take
13 that jurisdictional situation into consideration.
14 And, in general, Canada has a better relationship,
15 I hate to say that, the Canadians are probably
16 going to be very mad at me, but in general, they
17 actually do have a somewhat better relationship
18 with their tribal government, primarily because
19 they have a built-in constitutional protection
20 that are a little bit stronger.

21 So I'm not even going to guess as to how
22 that is applying to the broadband arena, but I

1 imagine there are a lot of similarities and it
2 would be worth looking at.

3 MR. LLOYD: Very interesting, okay.
4 Should a broadband school be created for students
5 who dropped out, let's see, in low to moderate
6 incomes? Considering access now is 600 to 1,500
7 per year per house; what price would have major
8 increase in use, broadband school? No, no takers?

9 MS. EFURD: I think every school should
10 be a broadband school.

11 MS. BUSH: I mean I think that it's
12 something that, when we're looking at it, we also
13 have to sort of look at it in the context of, you
14 know, that community's educational system,
15 because, you know, the one thing we also know is
16 that I mean simply having access to broadband by

17 itself is not going to be enough, and that, you
18 know, there's parent training involved, there is,
19 you know, there are - people have to be involved
20 to help the students deal with the many issues
21 that they have in their lives that are not just,
22 you know, lack of money, but, you know, typically

1 they are faced with a lot of challenges, and that
2 is has to be - it's an important part, but it has
3 to be part of a more comprehensive program that's
4 focused on educating kids in low income
5 communities.

6 MS. EFURD: I would add to that, Tony,
7 that we don't fund directly schools, but we fund a
8 lot of after school programs who work with kids
9 who are particularly - who has - may have been
10 dropped - dropped out of school at one point. And
11 what we found is that the broadband applications,
12 the ability to really do video and be able to
13 share that with people and to tell their story
14 really does help them in a number of ways. It's
15 therapeutic to some extent because they can
16 actually really explain what their situation - I
17 mean some of these kids, it's amazing, the
18 violence that they see every day and they have no
19 outlet of how to communicate that and what that
20 means to them and what that means to their
21 community. So the ability to do that and the
22 ability for them to share that and have people

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1 actually watch it on YouTube or whatever and get
2 that validating feedback is huge in terms of their
3 motivation to move on.

4 So I think, you know, these
5 opportunities that these new technologies have for
6 kids really is quite amazing. There's a school in
7 Sacramento that actually they do a video journal
8 every day, I mean they're using all of these
9 different applications and connecting to each
10 other via broadband, and you know, how amazing
11 would that be if that happened in every school in
12 the nation and that they had access to this kind
13 of technology.

14 MR. LLOYD: Okay. Heather, please.

15 MS. THOMPSON: I just wanted to sort of
16 put on the radar screen for the FCC staff who are
17 working on these education issues that it's a
18 little bit different in Indian country. Our
19 school department is the federal government, it's
20 the Department of Interior. I think other than
21 Department of Defense, we're the only other
22 federal school board, you know, school out there.

1 And so it's a little bit complicated and difficult
2 because as these funding programs go forward, the
3 funds are actually not often available to other
4 federal agencies, and so they get left out of
5 these growth areas, like Telecom. It's the same
6 thing for our health services, our hospitals are
7 the Federal Indian Health Service, and so they're
8 often not eligible for a lot of these programs
9 that are moving forward and they don't get funded
10 through Congress for these specific initiatives,
11 so we end up having these holes in our hubs.

12 So it's interesting to hear the
13 conversation about, you know, funding community
14 hubs, ours is the Bureau of Indian Education and
15 the Indian Health Service, and even our tribal
16 government building is the Federal, you know, is a
17 federal building. And so it's an odd thing to be
18 advocating for other federal agencies to receive
19 funding, but, in essence, that's the extension of
20 the tribal government, and so it's just something
21 interesting to keep in mind.

22 MR. LLOYD: Very interesting, all right.

1 So are there any other - well, we have a question
2 here about civil rights organizations in the U.S.
3 and whether or not those organizations really
4 understand the importance of broadband services.
5 I don't know if I would ask - put any of you guys
6 on the spot with regard to that question. But I
7 think we've sort of exhausted at least some of the
8 questions for the panel. Tony, were there some
9 sort of closing thoughts that you had about some
10 takeaways here?

11 MS. BUSH: Thanks for putting me on the
12 spot. Is that you or do I have a closing
13 response? I think that one major takeaway is that
14 there are a lot of people doing a lot of work on
15 these issues around the country, and that we have
16 unique challenges that are being faced by many
17 communities, but probably none quite as unique as
18 what's facing the tribal communities, because of
19 their relationship with the federal government and
20 the other issues that Heather I think has really
21 articulated very well today.

22 And I think that we see that there is -

1 I feel that there is a lot of hope and expectation
2 as a result of what the FCC is doing, what
3 Congress has done, and this emphasis on broadband,
4 and the, you know, I'm actually very optimistic
5 also because, you know, there's a tight deadline
6 on everything, on giving out the grant money, on
7 pleading the broadband plan that, you know, things
8 are really moving forward, and so I'm just, you
9 know, want to say that I think that if there's
10 anything we can do further to help the commission
11 as you try to, you know, distill all this down,
12 you should let us know.

13 MR. LLOYD: Well, thank you all again.
14 And as I said, I think at the beginning of the
15 day, this is really just the beginning of the
16 conversation, this is not the end. If there are
17 any written remarks or comments or follow-up that
18 you want to do to make sure that we get on the
19 record, we'd love to have that.

20 We hope to continue this conversation,
21 but I think the recommendation regarding focusing
22 on the best practices, what really works out

1 there, finding a way to fund them, to keep them
2 sustained, has been heard here, and again, I just
3 wanted to thank you all for coming down and
4 sharing your time. Thank you.

5

6 (Whereupon, the PROCEEDINGS were
7 adjourned.)

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